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OUTLINE
ALMRS - Future System

I. Executive Summary

II. Background

III. Automated Requirements

Module A - Basic storage and interface (Chart) and narrative description of each sub module

Module 1 - Verification and case processing
(narrative)

Module 2 - Query
(narrative)

Module 3 - Management reporting and statisitics
(narrative)

Module 4 - (topological graphic processing)
(narrative)

Module B - Manual
(narrative)

IV. Data Validity, Availability Requirements and Security

V. Narrative on Interface user(s)
(external) (internal)

VI. Summary Tables for Data

Appendix:

BLM - User identification - Encl. 1
Questionnaire - Encl. 2
Definitions - Encl. 3
Graphic Products - Encl. 4

BLM Library
D-553A, Building 50
Denver Federal Center
P. O. Box 25047
Denver, CO 80225-0047

BUREAU OF LAND MANAGEMENT LIBRARY
Denver, Colorado
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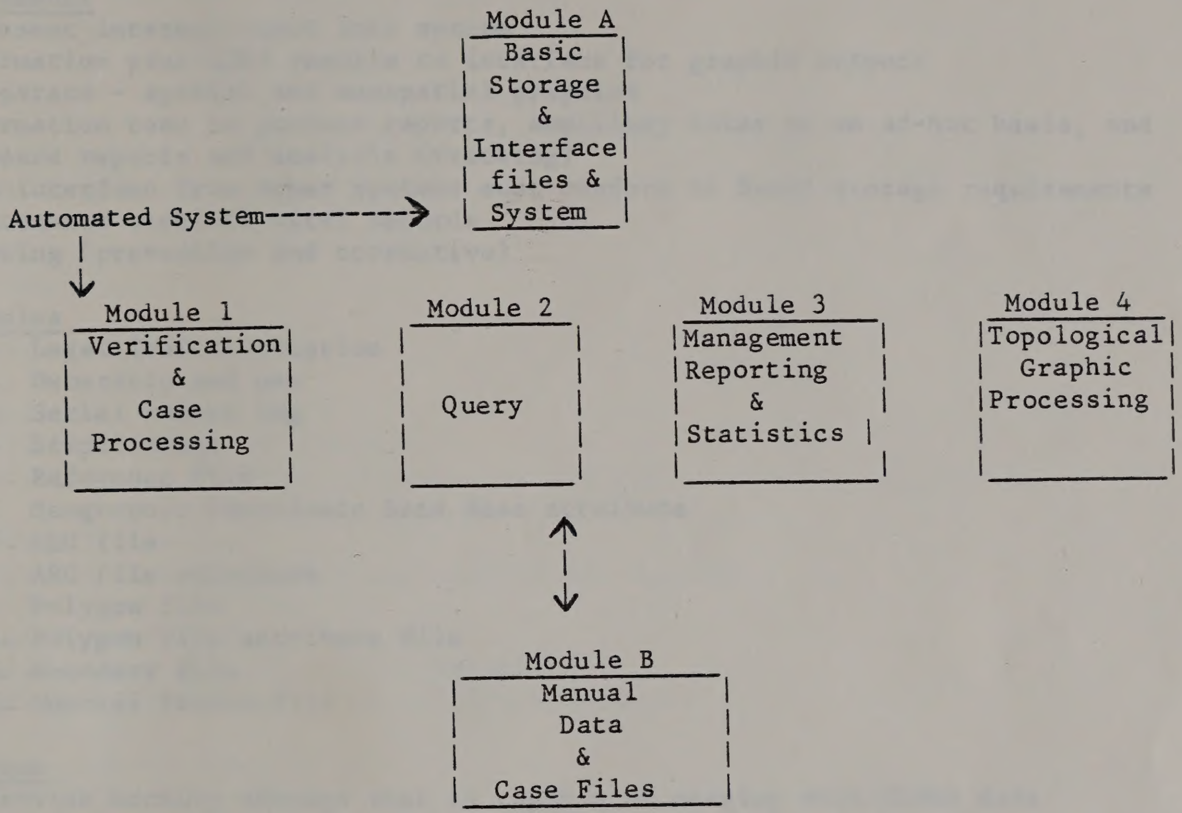
I. EXECUTIVE SUMMARY

SYSTEM REQUIREMENTS
(Alpha/numeric and graphic)
Automated Land and Mineral Record System (ALMRS)


Module A
Basic Storage & Interface files & System
Automated System
Module 1
Verification & Case Processing
Module 2
Query
Module 3
Management Reporting & Statistics
Module 4
Topological Graphic Processing
Module B
Manual Data & Case Files

Level 1 System Requirements

Module A (Basic automated storage and interfaced files and systems)

Basic Storage

Requirements
- represent internal input into system
- information plus GCDB require to interface for graphic outputs
  - separate - spatial and nonspatial graphics
- information used to produce reports, auxiliary dates on an ad-hoc basis, and standard reports and analysis (tracking)
- data interface from other systems must conform to basic storage requirements
- maintenance archival vital records
- updating (preventive and corrective)

Submodules
1. Legal land description
2. Ownership and use
3. Serial number log
4. Stipulations
5. Reference file
6. Geographic Coordinate Data Base attribute
7. ARC file
8. ARC file attribute
9. Polygon file
10. Polygon file attribute file
11. Boundary file
12. Special Status file

Interface

*Provide working storage that is capable of merging with ALMRS data
*Ability to reformat data and transcribe as required
(all data will have common data elements)
(one to one correspondence)
*Validity of data into system

Submodules

INTERFACED FILES (BLM)
1. Geographic Coordinates
2. Resource Data
3. Bond
4. Surety
5. Qualification
6. Master Name

INTERFACED SYSTEMS
- A. BLM
  1. Financial Management System
  2. Minerals System
  3. Solid Leasable Mineral system
  4. Simultaneous Oil & Gas Leasing System
  5. Geographic Information System
  6. Public Land Survey System

- B. Non-BLM
  1. Bonus and Rental Accounting Support System
  2. Production Accounting and Auditing System
  3. Auditing and Financial System
  4. Other

Module 1 (Verification and Case Processing)

Verification:
*Ensure accuracy of input/application or query reports
*Is graphic representation to system mathematically correct?
*Availability of land and mineral by case type
*Parallel processing capability

Verify:

*Qualify applicant
*Qualify application for completeness
- signature
- map and closure
- LLD correct + status
- money
- completeness of proposal

Case Processing:
*Provide action tracking and reports
*Provide conflict analysis and resolution by A/N and graphic for complex case types
*Final adjudication review
*Post-authorization status checks and reports and letters
*User friendly A/N and graphic
*Interface data compatible
*Provide both spatial and nonspatial graphics
*Technical review and documentation of NEPA compliance
*Management review
*Authorization A/N and graphics
*Report generator(s) - Pre/Post
- delegation of authority

Module 2 - Query

*Allows any ALMRS related question to be asked and in any manner (first structured, then ad-hoc)
*Categorical by user type for active case type
- standard (interactive and ad-hoc)
- nonstandard

*Response apply to both A/N and graphic (spatial and nonspatial) information.

*Nonstructured queries need additional analysis (Principally utilized at AO and DO)
*Parallel processing capability

Module 3

Management Reporting and Statistics

*Ability to aggregate and display (A/N and nonspatial graphic) all data to the highest and lowest level administrative unit

*Provide the capability to view and analyze data from a selection, iteration, or conditional standpoint

*Establish frequency for all reporting structure and prioritize reports

*Establish parallel processing

*Ability to prepare and display (A/N and nonspatial graphic) forecast and stat. analysis

Module 4

Topological Spatial Graphic Processing

*Accept both A/N and digital data
*Convert digital and A/N data to a structured format for map displays
*Reformat data for compatibility to National Digital Carto. D.B. (USGS)
*Parallel processing capability?

Module B

Manual and Case File

*Anything not automated

*Submodules

- Case file
- Survey plats and field notes
- Control Document Index
- Reference information

FEDSIM QUESTIONS

4.1 BLM DECISION LIST

1. What is ALMRS life cycle?

   Increment 1 will be start + five (5) years.
   Increment 2 will be start + eight (8) years.

   ALTERNATIVES ANALYSIS = 8 YR LIFE CYCLE

   Increment 1 will concentrate principally on the implementation of ALMRS internally to all offices in the Bureau (Resource Area, District Office, State Office, Washington Office, and the Service Center). Also included will be a capability to provide initial service to the USFS regional offices as well as MMS and USGS. The five OPEC states of the Bureau (Colorado, Wyoming, Montana, Utah, and New Mexico) will have limited potential for service to state and local governments. Additionally, a prototype will begin for industry and other publics.

   In Increment 2, service will be expanded to external users of state and local and field offices of the Forest Service (Forest supervisors and Ranger districts). Additionally, private user service will be significantly increased.

2. What architectural constraints?

   Current technology and state of the art for hardware and telecommunications systems.

3. Financial constraints?

   In the range of 50-100M.

4. What effect does the modernization plan have on ALMRS?

   The ALMRS study will directly interface with the modernization plan. In many ways, this study and its sizing methodology will influence the modernization plan and strategy.

5. What procedural constraints?

   The development of ALMRS and the resulting implementation will follow the Bureau's ADP project management.

6. What software constraints?

   None.

7. What operational constraints?

   State of the art.

8. Site preparation constraints?

No significant physical problems. However, the transition of the ALMRS from the old to the new will require significant planning and management. The study must recognize the pending Forest Service BLM land swap and resulting reorganization, which may influence site configuration and organizational structure.

9. External users?

See summary sheet. (Mailing list) 10.5 Read only

2-3 "levels of services" external users "who sees what data"

10. What capabilities must ALMRS provide external users?

Same as internal users, except they will not be allowed to use the management reporting and statistical files. Other federal agencies.

11. What are the different levels of services for external users?

Everyone will be treated equally. The Bureau will establish a priority rate structure for both internal and external users.

12. What legal contingencies?

No native American data will be available to external users.
No proprietory information will be included in the ALMRS system.

13. Redundancy in the system?

Total Backup System Comprehensive (Storage and Data Handling)	- Level 1 Redundancy (spatial/nonspatial)	Basic Storage Data Handling
Historical/Archival (Partial)	- Level 2 Redundancy (spatial/nonspatial)	Partial Backup

Sizes and Capacity purposes

% of duplication Conf (A/N + G)

14. What manual files will interface with ALMRS?

Elements of the case file will remain to ensure legal compliance. In addition, Control Document Indexes, Survey Plats, and Archival MTPs, HIs, etc., will be retrievable.

15. What kind of security is required? Password protection

Hardware--standard security (already existing security measures).

Software--standard Level 2 security--data safeguard (requirements over and above what already exist.

All federal land in which we have interest will be a part of ALMRS.

ALMRS - unclassified data

Military areas withdrawn from development may have levels of classification attached that transcend ALMRS requirements. (Need more information on this item.)

II. BACKGROUND

BLM Mission

The basic mission of all organizational entities of the Bureau will remain the same (see current system narrative). During the first five-year increment, delegation of authority for lands and minerals actions will be the same as at present (see users identification and locations in appendix).

The possible "land swap" within the U.S. Forest Service, if congressionally authorized, will alter the delegation for minerals actions. As projected, the Forest Service will have legal authority for all mineral actions on the land they administer.

Utilization of the current manual system, once redesigned and automated, will significantly change the present workload and workflows at all levels of the organization.

Of significant change will be:

1. Adjudicators will be able to concentrate their talents on the more complex and technical applications.

2. Management will be able to manage and track specific programs, including trends and performance, etc.

3. BLM management will be able to analyze complex internal and external applications in the level never offered by the manual system.

4. Service to the user will be significantly improved and expedited.

5. Standards and interface of data will become a daily routine, thus improving consistency and accuracy of data.

6. Present physical facilities, e.g., public rooms, dockets, cashier's cage, etc., will be significantly redesigned to accept the automated system.

7. Information/data will be current at all decentralized locations. Data will be manually entered only once into ALMRS and deceminated to all interfaced systems.

During the first increment of ALMRS, only nondeployed systems will be utilized by the BLM and outside user groups.

If the state of the art allows in increment 2, consideration should be given to limited utilization of deployed systems for use by the District and Area Field Offices.

Write Effects of automation has on offices in the BLM (few sentences)

III. AUTOMATED REQUIREMENTS

MODULE A
BASIC STORAGE, INTERFACE & NARRATIVE DESCRIPTION

The Basic Storage Module consists of A/N and graphic character necessary to perform the basic requirements of ALMRS. The files include:

1. Land Description
2. Ownership & Status
3. Topological Graphic Data
4. Serial Number log
5. Stipulations
6. Regulations reference

COMPUTATION SHEET

SUMMARY OF ALL SYSTEMS AND FILES USED BY ALMRS

File	Character Current
ALMRS SYSTEM FILES	
1. Land Description	.69 Billion
2. Ownership and Status	18 Billion
2A. Topological Graphic Data	407 Billion
3. Serial Number Log	less than .010 Billion
4. Stipulations	.82 Billion
5. Regulation Reference	1 Billion
M	
A 6. Case File	103 Billion
N 7. Survey Plats	
U 8. Control Document Index	
A 9. Reference Information	
L	
TOTAL	530.3 Billion
BLM INTERFACED FILES	
10. Geographic Coordinates	21.12 Billion
11. Resource Data	1000 Billion
12. Bond	.0028 Billion
13. Surety	.00075 Billion
14. Qualification	.00075 Billion
15. Master Name	.495 Billion
TOTAL	1021.62 Billion
INTERFACED SYSTEMS	
16. Financial Management System	.225 Billion
17. Minerals System 1	.146 Billion
18. Solid Leaseable Minerals System	.043 Billion
19. Simultaneous Oil & Gas Leasing Sys.	.052 Billion
20. Geographic Information System	1 Billion
21. Public Land Survey System	-
22. Bonus & Rental Accounting Support Sys	.2 Billion
23. Production Accounting & Auditing Sys	.3 Billion
24. Auditing & Financial System	.63 Billion
24A. Auditing & Financial System Royalty	.47 Billion
25. Others	TBD
TOTAL	3.07 Billion
GRAND TOTAL	1555 Billion Chars.

BASIC STORAGE AND INTERFACE SYSTEMS AND FILES

ALPHA/NUMERIC

MODULE A

The following table summarizes the 17,750M characters of data that ALMRS will initially require and the 350M characters that will be added each year:

	Status & Ownership	LLD	Stipulations	Regulation Reference File	TOTAL
Initial Storage Needs	16,984M	690.23M	3.16M	66.33M	17,743.72M
Yearly Storage Needs	345.799M	---	----	.811M	346.61M

I. OWNERSHIP STATUS

Automated data from cases that are closed and information is stripped from the case:

A. Assumptions and constraints

1. There will be 17M cases in ALMRS.

INITIAL CASE LOAD

	Land & Mineral	Mining Claims	TOTAL
Patents	10,000K	--	10,000K
Closed Cases (Status)	2,500K	--	2,500K
Open Cases	2,500K	2,000K	4,500K
TOTAL	15,000K	2,000K	17,000K

2. There will be 157K cases opened and 35K cases closed per year.

YEARLY ACTIVITY

	Land & Mineral	Mining Claims	TOTAL
Cases Opened	27K	130K	157K
Cases Closed	3K	32K	35K

3. Open cases will have 2,452 characters per case; initially closed cases (status) will have 476 characters per case and future closed cases 1,119 characters.

NUMBER OF CHARACTERS PER CASE

<table>
<tr><th rowspan="2">Record</th><th colspan="2" rowspan="2">Number of Characters</th><th colspan="2">Coefficient</th><th rowspan="2"></th><th colspan="4">Characters</th></tr>
<tr><th>Open</th><th>Closed</th><th>Open</th><th>Initial Closed</th><th>Yearly Closed</th><th>Archived per Case</th></tr>
<tr><td>header</td><td colspan="2">17</td><td>1.0</td><td>1.0</td><td>header</td><td>17</td><td>17</td><td>17</td><td>17</td></tr>
<tr><td>1</td><td colspan="2">81</td><td>6.6</td><td>3.33</td><td>record 1</td><td>535</td><td>270</td><td>535</td><td>0</td></tr>
<tr><td>2</td><td colspan="2">67</td><td>1.1</td><td>1.0</td><td>record 2</td><td>74</td><td>67</td><td>74</td><td>0</td></tr>
<tr><td></td><td>open</td><td>closed</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>3</td><td>48</td><td>38</td><td>1.1</td><td>0.1</td><td>record 3</td><td>53</td><td>4</td><td>53</td><td>0</td></tr>
<tr><td>4</td><td>86</td><td>32</td><td>16.5</td><td>1.1</td><td>record 4</td><td>1,419</td><td>35</td><td>86</td><td>1,333</td></tr>
<tr><td>5</td><td colspan="2">26</td><td>2.2</td><td>1.1</td><td>record 5</td><td>57</td><td>29</td><td>57</td><td>0</td></tr>
<tr><td>6</td><td colspan="2">54</td><td>5.5</td><td>1.0</td><td>record 6</td><td>297</td><td>54</td><td>297</td><td>0</td></tr>
<tr><td></td><td colspan="2"></td><td></td><td></td><td>TOTAL</td><td>2,452</td><td>476</td><td>1,119</td><td>1,350</td></tr>
</table>

4. There will be 16,984M characters of storage needed when ALMRS is operational.

INITIAL STORAGE NEEDS (CHARACTERS)

	Land & Mineral	Mining Claims	TOTAL
Patents & Status	5,950M	--	5,950M
Open Cases	6,130M	4,904M	11,034M
TOTAL	12,080M	4,904M	16,984M

5. There will be an additional 384.964M characters added each year for new cases and 39.165M characters stripped that may be archived; the result will be a net increase of 345.799M characters per year.

YEARLY STORAGE ADDITIONS (CHARACTERS)

	Land & Mineral	Mining Claims	TOTAL
Cases Opened	66.204M	318.76M	384.964M
Cases Closed (archived)	-3.357M	-35.808M	-39.165M
TOTAL	62.847M	282.952M	345.799M

II. LEGAL LAND DESCRIPTION

A. Assumptions

1. There are 70,231 townships or their equivalent in the United States.

2. There is an average of 126 records in each township.

3. There are 78 characters per record.

B. Analysis: We will need 690.23M characters to record Legal Land Description.

III. STIPULATIONS

A. Assumptions

1. There can be 15 stipulations tied to each Legal Land Description record, and we will require three (3) characters for each stipulation.

2. There are 70,231 townships or their equivalent in the United States.

B. Analysis: We will need 3.160M characters to record stipulations.

IV. REGULATION REFERENCE FILE

A. Assumptions

1. The number of characters that will be needed will be equivalent to the number of characters in the United States Code Annotated (USCA).

2. There are 18K pages of applicable regulations in the USCA and an average of 220 pages added per year.

3. The average number of lines on a page is 55.

4. The average number of characters per line is 67.

B. Analysis: We will need 66.330M characters to record the Regulation Reference File.

Automated Land and Mineral Record System

Storage Module

Charts and Narrative

Purpose of ALMRS Data Base: The ALMRS Data Base will provide for an organized, quickly-updatable and quickly-accessible automated storage module for Legal Land Description, ownership, land use and other status data.

Content of the ALMRS Data Base: The ALMRS Data Base will include data related to the ownership and use of the land (surface) and mineral (subsurface) rights in those lands that in the past were public land and mineral, and are currently owned and managed by the Federal government. Data will also include information on lands acquired by the Federal government that are within states such as Texas, the original 13 colonies, and other states not considered "public land" states.

The data will include land description such as: Meridian, Township, Range, Section, Subsection and political and administrative information. The political data include State, County, and Congressional items. The administrative data include: agency and subagency levels, such as: BLM State, District, and Resource Area information.

Other attributes include: U.S. Rights in Title, use and segregation information, etc.

Certain portions of the manual system will continue to serve the land and mineral record system after implementation of an automated land and mineral record system. These manual segments include the Control Document Index (CDI), land and mineral case files, cadastral survey plats and notes.

While redundancy of data resides throughout the several segments of the manual system, it will need to be entered only once in the automated system.

TOTALS FOR BASIC STORAGE*

STATE	TOTAL (000 CHARS)
AZ	31,029,894.4
CA	43,024,516.2
CO	32,890,652.1
ID	24,124,481.9
MT	55,212,142.3
NV	33,234,102.1
NM	36,401,679.4
OR	44,566,578.6
UT	23,822,511
WY	29,998,844
ES	70,256,683.9
	424,562,086

GRAND TOTAL = 424.6 Billion characters of basic storage for ALMRS

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*Totals include Alphanumerics and Graphics

		AIN * (000)	GRAPHICS (000)	TOTALS (000)
ARIZONA STATE OFFICE	M	1,386,275K	29,643,619	31,029,894.4
Arizona Strip DO (8%)	L	110,902 K	2,371,485.6	2482,391.6
Shivwits AO (35%)	L	38,816 K	830,021.3	868,837.3
Vermillion AO (65%)	L	72,086 K	1,541,468.2	1,613,554.2
Phoenix DO (72%)	H	998,118K	21,343,406.0	22,341,524
Phoenix RAH (57%)	M	568,927K	12,165,741.4	12,734,668
Kingman RAH (21%)	H	209,605K	4,482,115.3	4,691,720.3
Lower Gila RAH (22%)	M	219,586K	4,695,549.3	4,915,135.3
Safford DO (15%)	M	207,941K	4,446,542.9	4,654,483.9
Gila AO (40%)	M	83,176K	1,778,617.2	1,861,793.2
San Simon AO (60%)	L	124,765K	2,667,925.7	2,792,690.7
Yuma DO (5%)	L	69,314K	1,482,181.0	1,551,495.0
Havasu RAH (30%)	M	20,794K	444,654.3	465,448.3
Yuma AO (70%)	L	48,520K	1,037,526.7	1,086,046.7
TOTAL				

* includes non-spatial graphics.

		A/N (000)	GRAPHIC (000)	TOTAL (000)
CALIFORNIA STATE OFFICE	M	2,021,725 K	41,002,791.2 K	43,024,516.2 K
Bakersfield DO	H	707,604 K	14,350,976.9 K	15,058,580.9 K
Caliente RAH	H	226,433 K	4,592,312.6 K	4,818,745.6 K
Bishop RAH	M	56,608 K	1,148,078.2 K	1,204,686.2 K
Folsom RAH	H	247,661 K	5,022,841.9 K	5,270,502.9 K
Hollister RAH	M	176,901 K	3,587,744.2 K	3,764,645.2 K
Susanville DO	M	161,738 K	2,292,413.5 K	2,454,151.5 K
Eagle Lake RAH	L	72,782 K	1,031.586.1 K	1,104 368.1 K
Alturas RAH	M	48,521 K	687,724.1 K	736,245.1 K
Surprise RAH	M	40,435 K	573,103.4 K	613,538.4 K
Ukiah DO	M	444,780 K	9,020,614.1 K	9,465,394.1 K
Redding RAH	H	200,151 K	4,059,276.3 K	4,259,427.3 K
Arcata RAH	M	111,195 K	2,255,153.5 K	2,366,348.5 K
Clear Lake AO		133,434 K	2,706,184.2 K	2,839,618.2 K
California Desert DO	H	707,604 K	14,350,976.9 K	15,058,580.9 K
Ridgecrest RAH	M	141,521 K	2,870,195.4 K	3,011,716.4 K
Indio AO	M	70,760 K	1,435,097.7 K	1,505,857.7 K
El Centro RAH	M	70,760 K	1,435,097.7 K	1,505,857.7 K
Barstow RAH	H	283,042 K	5,740,390.8 K	6,023,432.8 K
Needles RAH	M	141,521 K	2,870,195.4 K	3,011,716.4 K
TOTAL				

		A/H* (000)	GRAPHIC (000)	TOTAL (000)
COLORADO STATE OFFICE	H	1,054,350K	31,836,302.1	32,890,652.1
Canon City DO	M	822,393K	24,832,315.6	25,654,708.6
Northeast RAH	M	616,795K	18,624,236.7	19,241,031.7
Royal Gorge RAH	M	156,255K	4,718,140.0	4,874,395.0
San Luis RAH	L	49,393K	1,489,938.9	1,539,281.9
Craig DO	H	94,892K	2,865,267.2	2,960,159.2
Kremmling RAH	L	28,468K	859,580.2	888,048.2
Little Snake RAH	H	37,957K	1,146,106.9	1,184,063.9
White River RAH	H	28,468K	859,580.2	888,048.2
Grand Junction DO	H	42,174K	1,273,452.1	1,315,626.1
		~~21,087K~~		
Glenwood Springs RAH	M	21,087K	636,726.0	657,813.0
Grand Junction AO	H	21,087K	636,726.0	657,813.0
Montrose DO	H	94,892K	2,865,267.2	2,960,159.2
Gunnison Basin RAH	M	26,570K	802,274.8	828,844.8
San Juan RAH	H	37,957K	1,146,106.9	1,184,063.9
Uncompahgre RAH	M	30,365K	916,885.5	947,250.5
TOTAL				

		A/N (000)	GRAPHIC (000)	TOTAL (000)
IDAHO STATE OFFICE	L	1,460,825K	22,663,656.9	24,124,481.9
Boise DO	H	350,598K	5,439,277.7	5,789,875.7
Bruneau AO	H	70,120K	1,087,855.5	1,157,975.5
Cascade AO	M	157,769K	2,447,674.9	2,605,443.9
Jarbidge AO	L	59,602K	924,677.2	984,279.2
Owyhee AO	H	63,107K	979,070.0	1,042,177.0
Burley DO	L	146,082K	2,266,365.7	2,412,447.7
Deep Creek AO	L	58,433K	906,546.3	964,979.3
Snake River AO	L	87,649K	1,359,819.4	1,447,468.4
Coeur d' Alene DO	L	350,598K	5,439,277.7	5,789,875.7
Cottonwood RAH	M	210,359K	3,263,566.6	3,473,925.6
Emerald Empire AO	L	140,239K	2,175,711.1	2,315,950.1
Idaho Falls DO	M	262,948K	4,079,458.2	4,342,406.2
Big Butte AO	M	78,884K	1,223,837.5	1,302,721.5
Medicine Lodge AO	M	105,179K	1,631,783.3	1,736,962.3
Pocatello RAH	H	78,884K	1,223,837.5	1,302,721.5
Soda Springs AO				
Salmon DO	L	219,124K	3,399,548.5	3,618,672.5
Challis AO	L	170,917K	2,651,647.9	2,822,564.9
Lemhi AO	L	48,207K	747,900.7	796,107.7
Shoshone DO	L	116,866K	2,039,729.1	2,156,595.1
Bennett Hills AO	M	56,096K	979,070.0	1,035,166.0
Monument AO	L	60,770K	1,060,659.1	1,121,429.1
TOTAL				

		A/10* (000)	GRAPHIC (000)	TO (000
MONTANA STATE OFFICE	H	1,455,500K	53,756,642.3	55,212,142.3
Butte DO (17%)	M	247,435K	9,138,629.2	9,386,064.2
Dillon RAH (20%)	M	49,427K	1,827,725.8	1,877,212.8
Garnet RAH (50%)	M	123,718K	4,569,314.6	4,693,032.6
Headwater AO (30%)	M	74,230K	2,741,588.8	2,815,818.8
Dickinson DO (24%)	M	349,320K	12,901,594.2	13,250,914.2
Lewistown DO (12%)	H	174,660K	6,450,797.1	6,625,457.1
Great Falls RAH (35%)	H	61,131K	2,257,779	2,318,910
Havre RAH (21%)	L	36,679K	1,354,667.4	1,391,346.4
Judith AO (22%)	L	38,425K	1,419,175.4	1,457,600.4
Phillips RAH (12%)	M	20,959K	774,095.6	795,054.6
Valley RAH (10%)	H	17,466K	645,079.7	662,545.7
Miles City DO (46%)	H	669,530K	24,728,055.5	25,397,585.5
Big Dry RAH (22%)	H	147,297K	5,440,172.2	5,587,469.2
Billings RAH (12%)	M	80,344K	2,967,366.7	3,047,710.7
Powder River RAH (10%)	H	66,953K	2,472,805.5	2,539,758.5
South Dakota RAH (56%)	M	374,937K	13,847,711.1	14,222,648.1
TOTAL				

		A/M (000)	GRAPHIC (000)	TOTAL (000)
NEVADA STATE OFFICE	M	2,619,900K	30,614,202.1	33,234,102.1
Battle Mountain DO	L	523,980 K	6,122,840.4	6,646,820.4
Shoshone-Eureka AO	L	235,791K	2,755,278.2	2,991,069.2
Tonopah RAH	M	288,189K	3,367,562.2	3,655,751.2
Carson City DO	M	392,985K	4,592,130.2	4,985,115.3
Lahontas AO	M	216,142K	2,525,671.7	2,741,813.7
Walker AO	L	176,843K	2,066,458.6	2,243,301.6
Elko DO	L	392,985K	4,592,130.2	4,985,115.3
Elko AO	M	196,492K	2,296,065.2	2,492,557.7
Wells AO	L	196,493K	2,296,065.2	2,492,557.7
Ely DO	L	392,925K	4,592,130.2	4,985,115.3
Egan AO	L	196,492K	2,296,065.2	2,492,557.7
Schell AO	L	196,493K	2,296,065.2	2,492,557.7
Las Vegas DO	H	523,980 K	6,122,840.4	6,646,820.4
Caliente RAH	L	235,791 K	2,755,278.2	2,991,069.2
Stateline-		288,189K	3,367,562.2	3,655,751.2
Esmeralda AO	H			
Winnemucca DO	L	392,985 K	4,592,130.2	4,985,115.3
Paradise-Denio AO	L	176,843 K	2,066,458.6	2,243,301.6
Sonoma-Gerlach AO	M	216,142K	2,525,671.7	2,741,813.7
TOTAL				

		A/N * (000)	GRAPHIC (000)	TOTAL (000)
NEW MEXICO STATE OFFICE	H	1,336,575K	55,065,104.4	36,401,679.4
Albuquerque DO	H	147,023K	3,857,161.5	4,004,184.5
Farmington RAH	H	39,696K	1,041,433.6	1,081,129.6
Rio Peuerco AO	H	39,696K	1,041,433.6	1,081,129.6
Taos RAH	L	67,631K	1,774,2943	1,841,925.3
Las Cruces DO		173,755K	4,558,463.6	4,732,218.6
Las Cruces/ Lordsburg RAH	L	39,964K	1048,446.6	1,088,410.6
Socorro RAH	M	32,226K	1,002,862.0	1,041,088.0
White Sands AO	L	95,565K	2,507,155.0	2,602,720.0
Roswell DO	H	441,070K	11,571,484.5	12,012,554.5
Carlsbad RAH	H	374,910K	9,835,761.8	10,210,671.8
Roswell AO	H	66,160K	1,735,722.7	1,801,882.7
Tulsa DO	M	574,727K	15,428,645.9	16,003,372.9
Oklahoma RAH	M	252,880K		
Tulsa ~~TOTAL~~		321,847K		

			AIN* (000)	GRAPHICS (000)	T[illegible]S (000)
OREGON STATE OFFICE		M	1,938,300K	42,628,278.6	44,566,578.6
Burns DO (9%)		M	174,447K	3,836,545	4,010,992
Three Rivers AO	(70%)	H	122,113K	2,685,582	2,807,695
Andrews AO	(30%)	M	52,334K	1,150,963	1,203,298
~~John Day AO~~					
Coos Bay DO (3%)		M	58,149K	1,278,848	1,336,997
Tioga AO	(25%)	M	14,537K	319,712	334,249
Umpqua AO	(25%)	M	14,537K	319,712	334,249
Myrtlewood AO	(50%)	M	29,075K	639,424	668,499
Eugene DO (3%)		M	58,149K	1,278,848	1,336,997
Noti RAH	(15%)	L	8,722K	191,827	200,549
Dorena AO	(15%)	L	8,722K	191,827	200,549
Mohawk AO	(40%)	M	23,260K	511,539	534,799
Lorane AO	(30%)	M	17,445K	383,654	401,099
Lakeview DO (9%)		L	174,447K	3,836,545	4,010,992
Warner Lake AO	(30%)	L	52,334K	1,150,963	1,203,297
High Desert AO	(30%)	M	52,334K	1,150,963	1,203,297
Klamath Falls RAH	(40%)		69,779K	1,534,618	1,604,397
Medford DO (3%)		H	58,149K	1,278,848	1,336,997
Klamath AO	(25%)	H	14,537K	319,712	334,249
Butte Falls AO	(20%)	H	11,630K	255,770	267400
Jacksonville AO	(15%)	H	8,722K	191,827	200,549
Grants Pass AO	(30%)	H	17,445K	383,654	401,099
Glendale AO	(10%)	M	5,815K	127,884	133,700
Prineville DO (9%)		M	174,447K	3,836,545	4,010,992
Central Oregon AO	(40%)	M	69,779K	1,534,618	1,604,397
Deschutes AO	(60%)	M	104,668K	2,301,927	2,406,595
Roseburg DO (2%)		M	38,766K	852,566	891,332
No Umpqua AO	(55%)	L	21,321K	468,911	490,232
So Umpqua AO	(20%)	M	7,753K	170,513	178,266
Dillard AO	(10%)	L	3,877K	85,256	89,133
Drain AO	(15%)	L	5,815K	127,885	133,700
~~TOTAL~~					
(Continued next page)					

OREGON STATE OFFICE (cont.)		A/N* (000)	GRAPHICS (000)	TOTAL (000)
Salem DO (6%)	M	116,298K	2,557,697	2,673,995
Santiam AO (5%)	L	21,945K	383,654	405,599
Alsea AO (20%)	M	29,260K	511,539	540,799
Tillamook RAH (23%)	M	33,649K	588,270	621,919
Yamhill AO (22%)	L	32,186K	562,693	594,879
Clackamas AO (20%)	L	29,260K	511,539	540,799
Spokane DO (41%)	L	794,703K	17,477,594	18,272,297
Border AO (50%)	L	397,351K	8,738,797	9,136,149
Wenatchee RAH (50%)	L	397,352K	8,738,797	9,136,149
Vale DO (5%)	H	290,745K	6,394,242	6,684,987
No Malheur AO (25%)	H	72,686K	1,598,560	1,671,246
Baker RAH (45%)	H	130,835K	2,877,409	3,008,244
So Malheur AO (30%)	H	87,223K	1,918,272	2,005,496
TOTAL				
GRAND TOTAL				

			A/N* (000)	GRAPHICS (000)	TOT[illegible] (0[illegible]
UTAH [illegible]ATE OFFICE		H	1,451,950K	22,370,561	23,822,511
Cedar City DO (20%)		M	290,390K	4,474,112	4,764,502
Beaver River RAH	(35%)	M	101,637K	1,565,939	1,667,576
Dixie RAH	(15%)	H	43,558K	671,117	714,675
Escalante RAH	(20%)	L	58,078K	894,822	952,900
Kanab RAH	(30%)	M	87,117K	1,342,234	1,429,351
Moab DO (23%)		H	333,948K	5,145,229	5,479,177
Grand RAH	(30%)	H	100,184K	1,543,569	1,643,753
Price River RAH	(17%)	M	56,771K	874,689	931,460
San Juan RAH	(35%)	H	110,822K	1,800,830	1,917,712
San Rafael RAH	(18%)	H	60,111K	926,141	986,252
Richfield DO (20%)		M	290,390K	4,474,112	4,764,502
Henry Mountain RAH	(23%)	L	66,790K	1,029,046	1,095,836
House Range RAH	(25%)	L	72,598K	1,118,528	1,191,126
Sevier River RAH	(28%)	M	81,309K	1,252,751	1,334,060
Warm Springs RAH	(24%)	M	69,693K	1,073,787	1,143,480
Salt Lake DO (27%)		L	392,026K	6,040,052	6,432,078
Bear River AO	(60%)	M	235,216K	3,624,031	3,859,247
Pony Express AO	(40%)	L	156,810K	2,416,021	2,572,831
Vernal DO (10%)		M	145,195K	2,237,056	2,382,251
Book Cliffs AO	(35%)	H	50,818K	782,970	833,788
Diamond Mountain AO	(65%)	M	94,377K	1,454,086	1,548,463

		A/H x (000)	GRAPHIC (000)	TOTAL (000)
WYOMING STATE OFFICE	H	1,343,675 K	28,655,169.0 K	29,998,844.0 K
Casper DO	H	873,389 K	18,625,859.9 K	19,499,248.9 K
Buffalo RAH	H	87,339 K	1,862,586.0 K	1,949,925.0 K
Newcastle RAH	H	655,042 K	13,969,394.9 K	14,624,436.9 K
Platte River AO	H	131,008 K	2,793,879.0 K	2,924,887.0 K
Rawlins DO	H	241,862 K	5,157,930.4 K	5,399,792.4 K
Divide AO	M	48,372 K	1,031,586.1 K	1,079,958.1 K
Lander RAH	H	89,489 K	1,908,434.3 K	1,997,923.3 K
Medicine Bow AO	L	104,001 K	2,217,910.1 K	2,321,911.1 K
Rock Springs DO	H	134,368 K	2,865,516.9 K	2,999,884.9 K
Big Sandy RAH	M	29,561 K	630,413.7 K	659,974.7 K
Kimmerer RAH	H	34,936 K	745,034.4 K	779,970.4 K
Pinedale RAH	M	42,998 K	916,965.4 K	959,963.4 K
Salt Wells RAH	H	26,874 K	573,103.4 K	599,977.4 K
Worland DO		94,057 K	2,005,861.8 K	2,099,918.8 K
Cody RAH	M	56,434 K	1,203,517.1 K	1,259,951.1 K
Grass Creek AO	L	20,693 K	441,289.6 K	461,982.6 K
Washakie AO	L	16,930 K	361,055.1 K	377,985.1 K
TOTAL				

		A/10 * (000)	GRAPHIC (000)	TOTAL (000)
EASTERN STATES OFFICE	L	1,684,475 K	68,572,208.9	70,256,683.9
Jackson DO (44%)	L	246,054 K	30,171,772	30,417,826
Public Land Srvy States				
Alabama, Arkansas				
Florida, Louisiana				
Mississippi				
Non-PLS States				
Georgia, Kentucky				
North & South Carolina				
Tennessee, Virginia				
Milwaukee DO (56%)	L	939,937 K	38,400,437	39,340,374
Public Land Srvy States				
Illinois, Indiana				
Iowa, Michigan				
Minnesota, Missouri				
Ohio(70%), Wisconsin				
Non-PLS States				
Connecticut, Delaware				
Dist. of Col., Maine				
Maryland, Massachusetts				
N. Hampshire, N. Jersey				
New York, Ohio(30%)				
Pennsylvania, Rhode Is.				
Vermont, W. Virginia				
TOTAL				

WASHINGTON OFFICE	M	
Board of Trade Building (711, 720, 730, 740, 811, 860, 870, 871, 872, 873)	M	
Premier Building (105, 201, 202, 220, 221, 222, 230, 240, 250)	L	
Matomic Building (504, 620, 621, 622, 623, 630, 631, 632, 690, 691, 692, 833)	H	
TOTAL		
DENVER SERVICE CENTER	L	
D-100, 150, 140	M	
D-200	M	
D-400	L	
D-500	L	
TOTAL		
ALASKA STATE OFFICE		
Anchorage DO		
Peninsula AO		
Glennallen RAH		
McGrath AO		
Fairbanks DO		
Northwest AO		
Yukon AO		
Arctic AO		
Alaska Fire Service		
TOTAL		

ALMRS GRAPHICS REQUIREMENTS

BACKGROUND

The new records in use in the Bureau offices throughout the west consist of three elements: 1) Ownership, or Master Title Plat; 2) Use Plats; and 3) Historical Index. Each township will have Master Title Plats and an Historical Index. If there are any mineral applications, leases, licenses or permits covering lands in a township, the township will also have one or more Use Plats. Each township, therefore, is complete in every respect, being able to stand by itself in terms of title use and historical information.

MASTER TITLE PLAT

The Ownership Plat, or Master Title Plat as it is commonly called, shows the land that has been patented, the patent number, the reservations to the United States as stated in the patent, and the land that is still vacant--federal land--often referred to as vacant public domain. Withdrawals, rights-of-way, national forests, Indian reservations, wildlife refuges, and other such similar reservations and actions are also shown. Lands that have been patented and then reacquired by the United States are shown.

The first step in building the Master File Plat was the making of a basic township plat on a scale of 30 chains to the inch. The basic plat is a composite of the official township survey plat or plats and is as nearly identical as possible. If more than one survey has been made for a township, the basic plat is a composite of all the surveys with the composite survey picture appearing on one plat. Although it is either a copy or a composite of the surveys, the Master Title Plat is not to be construed as an official survey plat.

The Master Title Plat shows title information by various weights and different shapes of lines. Each different weight or kind of line indicates a separate and distinct type of action. Each such action is annotated with an abbreviation that identifies the action or authority for the action.

USE PLAT

The Bureau's record system makes a provision for a Use Plat on which are shown mineral leases, applications, and permits. Such information does not appear on the Master Title Plat, as this data is not necessary for title determination. These records, which are kept in State Offices, are also available for public inspection.

HISTORICAL INDEX

The Historical Index is a chronological narrative of all past and present actions that affect the use of, or title to, public lands and resources. The Historical Index can be used to check title, but it was not designed for that purpose, nor is it necessary for use in making title determinations. The primary value of the Historical Index is its adaptability for abstract work. This record is also kept in the State Offices and is available for public inspection.

BASIC STORAGE

Basic storage will consist of the following data files:

1. Legal Land Description
2. Status (Ownership and Use)
3. Serial Number Log
4. Stipulations
5. Regulation References
6. Geographic coordinate node data and associate attribute information
7. Geographic arc data and associated attribute information
8. Polygon data and associated attribute information

Information contained in legal land description and status will be abstracted from the Bureau's present record system (Master Title Plats, Use Plats, and Historical Indexes). Geographic coordinate node data will be created from information resident in the Geographic Coordinate Data Base interface file.

Since the Bureau's present record information is based upon both alphanumeric and plat reports, and users of our records have become accustomed to viewing information in this format, ALMRS will maintain both alphanumeric and graphic depictions, along with many enhancements over the manual method.

ALRMS graphic objectives for development are the following:

1. Produce numerous graphic reports through modern computer graphic technology to a network of potential users.

2. Make selected graphic information that is currently accessible on the Master Title Plats, Special Use Plats, and other paper copy maps from the State Office public rooms available in State Offices, District Offices, Area Offices, and private industry in spatially oriented digital formats through computer graphic CRT terminals, hard copy prints, and magnetic media.

3. Current graphic representations will not be automated in their existing formats. Changes will provide the same information in a variety of computer-generated formats capable of selecting and overlaying any combination of thematic data.

4. Design the graphic reports of ALMRS to be applicable for system development to almost any data base environment.

5. Design ALMRS to accommodate access by all users Bureauwide and private industry from locations throughout the United States via standard telephone facilities and terminal modems, satellite communications, or microwave systems.

6. Provide users with information currently not available through the present paper copy plat and map system to the graphic capability of the new system.

7. Compatibility of data to allow for the integration with the Geographic Information System (GIS), alternatives, and/or technology to produce an ALMRS/resource report.

8. Provide scale independence allowing for graphic reports to be displayed and/or printed at any desired map scale, ranging from 1" = 49 chains to 1" = 1,000,000 (approximately 16 miles).

9. Provide the capability to view an entire state window with the ability to converge the viewing window down to the smallest desired area and back to the original window upon a graphic CRT terminal.

10. Provide color graphic capability to replace the present line weight designation for ownership separations, withdrawals, etc. as shown on the paper copy Master Title Plats and Special Use Plats.

ALMRS design criteria for automated graphics are as follows:

1. Maintain arc/node data structure for spatial graphs.

2. Convert alphanumeric information contained in legal land description and status into spatial graphic representations.

3. Automatic updates to spatial graphics upon completion of updadtes to alphanumeric data bases.

4. Real time response for graphic products.

5. Modular approach to data base development.

Case processing and query modules will initiate all spatial graphic requests. The topological processor module will structure alphanumeric and geographic data into a spatial graphic product.

The following description will aid in understanding the functions and operation of a topologically structured data file:

> The concept is based on graph theory in which a diagram can be expressed as a set of nodes (points) and links in a manner that expresses logical relationships. Applied to a map or plat, this concept is used to abstract the features (status, use, lines, etc.) shown on the map or plat and to represent these features as various kinds of lines and information. The abstraction of the map or plat data according to the rules of graph theory is necessary to preserve the spatial relationships inherent in map or plat data and to create a logical and consistent data file structure for computer processing. A digital data file of cartographic/geographic data that maintains the spatial relationships inherent in the map or plat is called a topologically structured data file.
>
> A topologically structured data file has the spatial relationships inherent in the data explicitly coded. For example, a boundary is a line separating two areas. Generally, in a topologically structured data file, the boundary description contains references (termed pointers) to each area separated by the boundary, a description of each area, status of each area, and pointers to all lines that, when combined, make the complete boundary of the area.
>
> It is necessary to define map or plat features in this manner because the spatial relationships, obvious when a map or plat is examined visually, are lost when the map or plat is converted to digital form unless those relationships are explicitly encoded.

Non-spatial (bar, pie, line, etc.) charts will also be required of ALMRS for a variety of statistical and management reports. Non-spatial graphs will be initiated in the management reporting and statistics, case processing, and query modules.

BASIC STORAGE

STATE	CHAR COUNT OF GRAPHICS (000)
AZ	29,643,619
CA	41,002,791.2
CO	31,836,302.1
ID	22,663,656.9
MT	53,756,642.3
NV	30,614,202.1
NM	35,065,104.4
OR	42,628,278.6
UT	22,370,561
WY	28,655,169.0
ES	68,572,208.9
TOTAL	406.8 Billion

SPATIAL GRAPHICS

[A]

BASIC STORAGE NARRATIVE

Sheet 1 in [A] represents all the files needed to produce spatial and nonspatial graphics. Each data sheet applies to basic storage or administrative boundaries or special status boundaries by state. Within each data sheet there are seven (7) files listed except for the boundary data sheets. The files describe what is required for node, arc, and polygon information together with their associated attribute files. In addition, there is a quadrangle-name file that is contained only for the basic storage data sheet. Within each state, the district and area offices are broken out to reflect the basic storage requirements of each of the files listed. The information listed is a character count in thousands of characters.

[A] Basic Framework for Spatial Information and Basic Storage

[B] Basic Framework for Quick Access to Admin. Boundaries

[C] Basic Framework for Quick Access to Special Status Boundaries

Districts are broken out by percentages of the total storage requirements by state; the area offices are broken out by respective percentages of total district storage.

UNIT STATE: AZ	NODE FILE (000)	NODE ATTRIBUTE FILE (000)	LINE FILE (000)	LINE ATTRIBUTE FILE (000)	POLYGON FILE (000)	POLYGON ATTRIBUTE FILE (000)	QUAD FILE (000)	BOUNDARY FILE	SPECIAL STATUS FILE	
ARIZONA	1588664.0	1624770.0	866544.0	5415900.0	866544.0	17330880.0				
ARIZONA STRIP DO	127093.1	129981.6	69323.5	443272.0	69323.5	1386470.4	30.8			8%
SHIVWITS AO	44482.6	45493.5	24263.2	151645.2	24263.2	485264.6	10.8			35%
VERMILLION AO	82610.5	84488.1	45060.3	288126.8	45060.3	901205.8	20.0			65%
PHOENIX DO	1143838.1	1169834.4	623911.7	3899448.0	623911.7	12478233.6	277.5			72%
PHOENIX AO	651987.7	666805.6	355629.7	2222685.4	355629.7	7112593.2	158.2			57%
KINGMAN AO	240206.0	245665.2	131021.4	818884.1	131021.4	2620429.0	58.3			21%
LOWER GILA AO	251644.4	257363.6	137260.6	857878.5	137260.6	2745211.4	61.0			22%
SAFFORD DO	238299.6	243715.5	129981.6	812385.0	129981.6	2599632.0	57.8			15%
GILA AO	95319.8	97486.2	51992.6	324954.0	51992.6	1039852.8	23.1			40%
SAN SIMON AO	142979.8	146229.3	77989.0	487431.0	77989.0	1559779.2	34.7			60%
YUMA DO	79433.2	81238.5	43327.2	270795.0	43327.2	866544.0	19.3			5%
HAVASU AO	23830.0	24371.5	12998.2	81238.5	12998.2	259963.2	5.8			30%
YUMA AO	55603.2	56867.0	30329.0	189556.5	30329.0	606580.8	13.3			70%

All : Az	NODE FILE (000)	ATTRIBUTE FILE (000)	LINE FILE (000)	ATTRIBUTE FILE (000)	POLYGON FILE (000)	ATTRIBUTE FILE (000)	~~FILE~~	~~BOUNDARY FILE~~	E	
	160,578.0	164,227.5	87,588.0	182,475.0	76.1	304.3				
Do	12,846.2	13,138.2	7,007.0	14,598.0	6.1	24.3				8%
Ao	4,496.2	4,598.4	2,452.5	5,109.3	2.1	8.5				35%
Ao	8,350.0	8,539.8	4,554.5	9,488.7	4.0	15.8				65%
Do	115,616.2	118,243.8	63,063.4	131,382.0	54.8	219.1				72%
Ao	65,901.2	67,399.0	35,946.1	74,887.7	31.2	124.9				57%
Ao	24,279.4	24,831.2	13,243.3	27,590.2	11.5	46.0				21%
Ao	25,435.6	26,013.6	13,873.9	28,904.0	12.1	48.2				22%
Do	24,086.7	24,634.1	13,138.2	27,371.3	11.4	45.6				15%
Ao	9,634.7	9,853.7	5,255.3	10,948.5	4.6	18.3				40%
Ao	14,452.0	14,780.5	7,882.9	16,422.8	6.8	27.4				60%
Do	8,028.9	8,211.4	4,379.4	9,123.8	3.8	15.2				5%
Ao	2,408.7	2,463.4	1,313.8	2,737.1	1.1	4.6				30%
Ao	5,620.2	5,748.0	3,065.6	6,386.6	2.7	10.6				70%

BOUNDARY

Az	FILE (000)	ATTRIBUTE FILE (000)	LINE FILE (000)	ATTRIBUTE FILE (000)	POLYGON FILE (000)	ATTRIBUTE FILE (000)	FILE	FILE	E	
	160,578.0	164,227.5	87,588.0	182,475.0	152,040.0	608,160.0				
Do	12,846.2	13,138.2	7,007.0	14,598.0	12,163.2	48,652.8				8%
Ao	4,496.2	4,598.4	2,452.5	5,109.3	4,257.1	17,028.5				35%
Ao	8,350.0	8,539.8	4,554.5	9,488.7	7,906.1	31,624.3				65%
Do	115,616.2	118,243.8	63,063.4	131,382.0	109,468.8	437,875.2				72%
Ao	65,901.2	67,399.0	35,946.1	74,887.7	62,397.2	249,588.9				57%
Ao	24,279.4	24,831.2	13,243.3	27,590.2	22,988.4	91,953.8				21%
Ao	25,435.6	26,013.6	13,873.9	28,904.0	24,083.1	96,332.5				22%
Do	24,086.7	24,634.1	13,138.2	27,371.3	22,806.0	91,224.0				15%
Ao	9,634.7	9,853.7	5,255.3	10,948.5	9,122.4	36,489.6				40%
Ao	14,452.0	14,780.5	7,882.9	16,422.8	13,683.6	54,734.4				60%
Do	8,028.9	8,211.4	4,379.4	9,123.8	7,602.0	30,408.0				5%
Ao	2,408.7	2,463.4	1,313.8	2,737.1	2,280.6	9,122.4				30%
Ao	5,620.2	5,748.0	3,065.6	6,386.6	5,321.4	21,285.6				70%

SPECIAL STATUS BOUNDARY

HIN TATE: CA	NODE FILE (000)	ATTRIBUTE FILE (000)	LINE FILE (000)	ATTRIBUTE FILE (000)	POLYGON (000) FILE	ATTRIBUTE (000) FILE	QUAD FILE (000)	BOUNDKEY FILE	SPECIAL [illegible]	
	2,169,992.0	2,219,310.0	1,183,632.0	7,397,700.0	1,183,632.0	23,672,640.0	537.0			
BAKERSFIELD DO	759,497.2	776,758.5	414,271.2	2,589,195.0	414,271.2	8,285,424.0	188.0			35%
CALIENTE AO	243,039.1	248,562.7	132,566.8	828,542.4	132,566.8	2,651,335.7	60.2			32%
BISHOP AO	60,759.8	62,140.7	33,141.7	207,135.6	33,141.7	662,833.9	15.0			8%
FOLSOM AO	265,824.0	271,865.5	144,994.9	906,218.3	144,994.9	2,899,898.4	65.8			35%
HOLLISTER AO	189,874.3	194,189.6	103,567.8	647,298.8	103,567.8	2,071,356.0	47.0			25%
SUSANVILLE DO	173,599.4	177,544.8	94,690.6	591,816.0	94,690.6	1,893,811.2	43.0			8%
EAGLE LAKE AO	78,119.8	79,895.2	42,610.8	266,317.2	42,610.8	852,215.0	19.4			45%
ALTURAS AO	52,078.8	53,263.4	28,407.2	177,544.8	28,407.2	568,143.4	12.9			30%
SURPRISE AO	43,399.8	44,386.2	23,672.6	147,954.0	23,672.6	473,452.8	10.7			25%
UKIAH DO	477,398.2	488,248.2	260,399.0	1,627,494.0	260,399.0	5,207,980.8	118.1			22%
REDDING AO	214,829.2	219,711.7	117,179.6	732,372.3	117,179.6	2,343,591.4	53.2			45%
ARCATA AO	119,349.5	122,062.1	65,099.8	406,873.5	65,099.8	1,301,995.2	29.5			25%
CLEAR LAKE AO	143,219.5	146,474.4	78,119.7	488,248.2	78,119.7	1,562,394.2	35.4			30%
CALIF. DESERT DO	759,497.2	776,758.5	414,271.2	2,589,195.0	414,271.2	8,285,424.0	188.0			35%
RIDGECREST AO	151,899.4	155,351.7	82,854.2	517,839.0	82,854.2	1,657,084.8	37.6			20%
INDIO AO.	75,949.7	77,675.9	41,427.1	258,919.5	41,427.1	828,542.4	18.8			10%
EL CENTRO AO	75,949.7	77,675.9	41,427.1	258,919.5	41,427.1	828,542.4	18.8			10%
BARSTOW AO	303,798.9	310,703.4	165,708.6	1,035,678.0	165,708.6	3,314,169.6	75.2			40%
NEEDLES AO	151,899.4	155,351.7	82,854.2	517,839.0	82,854.2	1,657,084.8	37.6			20%

ATE : CA	NODE FILE (000)	NODE ATTRIBUTE FILE (000)	LINE FILE (000)	LINE ATTRIBUTE FILE (000)	POLYGON FILE (000)	POLYGON ATTRIBUTE FILE (000)	QUAD ~~FILE~~	~~BOUNDARY FILE~~	SPECIAL ~~FILE~~	
	261,426.0	267,367.5	142,596.0	297,075.0	123.8	495.4				
Do	91,499.1	93,578.6	49,908.6	103,976.3	43.3	173.4				35%
Ao	29,279.7	29,945.2	15,970.8	33,272.4	13.9	55.5				32%
Ao	7,319.9	7,486.3	3,992.7	8,318.1	3.5	13.9				8%
Ao	32,024.7	32,752.5	17,468.0	36,391.7	15.2	60.7				35%
Ao	22,874.8	23,394.7	12,477.2	25,994.1	10.8	43.3				25%
Do	20,914.1	21,389.4	11,407.7	23,766.0	9.9	39.6				8%
Ao	9,411.3	9,625.2	5,133.5	10,694.7	4.5	17.8				45%
Ao	6,274.2	6,416.8	3,422.3	7,129.8	3.0	11.9				30%
Ao	5,228.7	5,347.4	2,851.9	5,941.5	2.4	9.9				25%
Do	57,513.7	58,820.9	31,371.1	65,356.5	27.2	109.0				22%
Ao	25,881.2	26,469.4	14,117.0	29,410.4	12.3	49.0				45%
Ao	14,378.4	14,705.2	7,842.8	16,339.1	6.8	27.2				25%
Ao	17,254.1	17,646.3	9,411.3	19,607.0	8.2	32.8				30%
Do	91,499.1	93,578.6	49,908.6	103,976.3	43.3	173.4				35%
Ao	18,299.8	11,764.2	9,981.7	20,795.3	8.7	34.7				20%
Ao	5,751.4	5,882.1	4,990.9	10,397.6	4.3	17.3				10%
Ao.	5,751.4	5,882.1	4,990.9	10,397.6	4.3	17.3				10%
Ao	36,599.6	23,528.3	19,963.4	41,590.5	17.3	69.4				40%
Ao	11,502.7	11,764.2	9,981.7	20,795.3	8.7	34.7				20%

BOUNDARY

[illegible]	NODE FILE (000)	NODE ATTRIBUTE FILE (000)	LINE FILE (000)	LINE ATTRIBUTE FILE (000)	POLYGON FILE (000)	POLYGON ATTRIBUTE FILE (000)	~~QUAD FILE~~	~~BOUNDARY FILE~~	SPECIAL STATUS FILE	
	261,426.0	267,367.5	142,596.0	297,075.0	247,560.0	990,240.0				
Do	91,499.1	93,578.6	49,908.6	103,976.3	86,646.0	346,584.0				35%
Ao	29,279.7	29,945.2	15,970.8	33,272.4	27,726.7	110,906.9				32%
Ao	7,319.9	7,486.3	3,992.7	8,318.1	6,931.7	27,726.7				8%
Ao	32,024.7	32,752.5	17,468.0	36,391.7	30,326.1	121,304.4				35%
Ao	22,874.8	23,394.7	12,477.2	25,994.1	21,661.5	86,646.0				25%
Do	20,914.1	21,389.4	11,407.7	23,766.0	19,804.8	79,219.2				8%
Ao	9,411.3	9,625.2	5,133.5	10,694.7	8,912.2	35,648.6				45%
Ao	6,274.2	6,416.8	3,422.3	7,129.8	5,941.4	23,765.8				30%
Ao	5,228.7	5,347.4	2,851.9	5,941.5	4,951.2	19,804.8				25%
Do	57,513.7	58,820.9	31,371.1	65,356.5	54,463.2	217,852.8				22%
Ao	25,881.2	26,469.4	14,117.0	29,410.4	24,508.4	98,033.8				45%
Ao	14,378.4	14,705.2	7,842.8	16,339.1	13,615.8	54,463.2				25%
Ao	17,254.1	17,646.3	9,411.3	19,607.0	16,339.0	65,355.8				30%
Do	91,499.1	93,578.6	49,908.6	103,976.3	86,646.0	346,584.0				35%
Ao	18,299.8	11,764.2	9,981.7	20,795.3	17,329.2	69,316.8				20%
Ao	5,751.4	5,882.1	4,990.9	10,397.6	8,664.6	34,658.4				10%
Ao	5,751.4	5,882.1	4,990.9	10,397.6	8,664.6	34,658.4				10%
Ao	36,599.6	23,528.3	19,963.4	41,590.5	34,658.4	138,633.6				40%
Ao	11,502.7	11,764.2	9,981.7	20,795.3	17,329.2	69,316.8				20%

SPECIAL STATUS

BOUNDARY

TIN - ATE : Co	NODE FILE (000)	ATTRIBUTE FILE (000)	LINE FILE (000)	ATTRIBUTE FILE (000)	POLYGON FILE	ATTRIBUTE (000) FILE	FILE	~~BOUNDARY FILE~~	~~FILE~~	
	1,731,730.0	1,771,087.5	944,580.0	5,903,625.0	944,580.0	18,891,600.0	631.5			
CANNON CTY DO	1,350,749.4	1,381,448.3	736,772.4	4,604,827.5	736,772.4	14,735,448.0	492.6			78%
NORTHEAST AO	1,013,062.1	1,036,086.2	552,579.3	3,453,620.6	552,579.3	11,051,586.0	369.4			75%
ROYAL GORGE AO	256,642.4	262,475.2	139,986.8	874,917.2	139,986.8	2,799,735.1	93.6			19%
SAN LUIS AO	81,045.0	82,886.9	44,206.3	276,289.7	44,206.3	884,126.9	29.6			6%
CRAIG DO	155,855.7	159,397.9	85,012.2	531,326.3	85,012.2	1,700,244.0	56.8			9%
KREMMLING AO	46,756.7	47,819.4	25,503.7	159,397.9	25,503.7	510,073.2	17.1			30%
LITTLE SNAKE AO	62,342.3	63,759.1	34,004.9	212,530.5	34,004.9	680,097.6	22.7			40%
WHITE RIVER AO	46,756.7	47,819.4	25,503.7	159,397.9	25,503.7	510,073.2	17.0			30%
GRAND JUN. DO	69,269.2	6,375.9	37,783.2	236,145.0	37,783.2	755,664.0	25.3			4%
GLENWOOD AO	34,634.6	3,187.9	18,891.6	118,072.5	18,891.6	377,832.0	12.7			50%
GRAND JUN. AO	34,634.6	3,188.0	18,891.6	118,072.5	18,891.6	377,832.0	12.6			50%
MONTROSS DO	155,855.7	573,8	85,012.2	531,326.3	85,012.2	1,700,244.0	56.8			9%
GUNNISON AO	43,639.6	160.7	23,803.4	148,771.4	23,803.4	476,068.3	15.9			28%
SAN JUAN AO	62,342.3	229.5	34,004.9	212,530.5	34,004.9	680,097.6	22.7			40%
UNCOMPAHGRE AO	49,873.8	183.6	27,203.9	170,024.4	27,203.9	544,078.1	18.2			32%

DATA - DATE : Co	NODE FILE (000)	ATTRIBUTE FILE (000)	LINE FILE (000)	ATTRIBUTE FILE (000)	POLYGON FILE (000)	ATTRIBUTE FILE (000)	~~FILE~~	BOUNDARY ~~FILE~~	DCS E	
	135,718.0	138,802.5	74,028.0	154,225.0	64.3	257.3				
Do	105,860.0	108,266.0	57,741.8	120,295.5	50.2	200.7				78%
Ao	79,395.0	81,199.5	43,306.4	90,221.6	37.6	150.5				75%
Ao	20,113.4	20,570.5	10,970.6	22,856.1	9.6	38.1				19%
Ao	6,351.6	6,496.0	3,464.5	7,217.7	3.0	12.1				6%
Do	12,214.6	12,492.2	6,662.5	13,880.3	5.8	23.2				9%
Ao	3,664.4	3,747.7	1,998.8	4,164.1	1.7	6.9				30%
Ao	4,885.8	4,996.9	2,665.0	5,552.1	2.4	9.3				40%
Ao	3,664.4	3,747.7	1,998.8	4,164.1	1.7	6.9				30%
Do	5,428.7	5,552.1	2,961.1	6,169.0	2.6	10.3				4%
Ao	2,714.4	2,776.1	1,480.6	3,084.5	1.3	5.2				50%
Ao	2,714.3	2,776.0	1,480.5	3,084.5	1.3	5.1				50%
Do	12,214.6	12,492.2	6,662.5	13,880.3	5.8	23.2				9%
Ao	3,420.1	3,497.8	1,865.5	3,886.5	1.6	6.5				28%
Ao	4,885.8	4,996.9	2,665.0	5,552.1	2.3	9.3				40%
Ao	3,908.7	3,997.5	2,132.0	4,441.7	1.9	7.4				32%

BOUNDARY

: Co	FILE (000)	FILE (000)	LINE FILE (000)	ATTRIBUTE FILE (000)	POLYGON FILE (000)	ATTRIBUTE FILE (000)	~~FILE~~	~~FILE~~	~~STATUS~~ E	
	135,718.0	138,802.5	74,028.0	154,225.0	128,520.0	514,080.0				
DO	105,860.0	108,266.0	57,741.8	120,295.5	100,245.6					78%
Ao	79,395.0	81,199.5	43,306.4	90,221.6	75,184.2					75%
Ao	20,113.4	20,570.5	10,970.6	22,856.1	19,046.7					19%
Ao	6,351.6	6,496.0	3,464.5	7,217.7	6,014.7					6%
Do	12,214.6	12,492.2	6,662.5	13,880.3	11,566.8					9%
Ao	3,664.4	3,747.7	1,998.8	4,164.1	3,470.0					30%
Ao	4,885.8	4,996.9	2,665.0	5,552.1	4,626.8					40%
Ao	3,664.4	3,747.7	1,998.8	4,164.1	3,470.0					30%
Do	5,428.7	5,552.1	2,961.1	6,169.0	5,140.8					4%
Ao	2,714.4	2,776.1	1,480.6	3,084.5	2,570.4					50%
Ao	2,714.3	2,776.0	1,480.5	3,084.5	2,570.4					50%
Do	12,214.6	12,492.2	6,662.5	13,880.3	11,566.8					9%
Ao	3,420.1	3,497.8	1,865.5	3,886.5	3,238.7					28%
Ao	4,885.8	4,996.9	2,665.0	5,552.1	4,626.7					40%
Ao	3,908.7	3,997.5	2,132.0	4,441.7	3,701.4					32%

SPECIAL STATUS BOUNDARIES

ATE : ID	NODE ILE 00 CHARS)	NODE ATTRIBUTE FILE (000 CHARS)	LINE FILE (000 CHARS)	LINE ATTRIBUTE FILE (000 CHARS)	POLYGON ILE 0 CHARS)	POLYGON ATTRIBUTE FILE (000 CHARS)	QUAD FILE (000 CHARS)	~~BOUNDARY FILE~~	~~SPECIAL OS E~~	PERCENT BY SITE
	1 168 728	1 195 290	637 488	3 984 300	637 488	12 749 760	283.5			
BOISE DO	280,494.7	286,869.6	152,997.1	956,232.0	152,997.1	3,059,942.4	68.0			24
BRUNEAU AO	56,098.9	57,373.9	30,599.4	191,246.4	30,599.4	611,988.5	13.6			20
CASCADE AO	126,222.6	129,091.3	68,848.7	430,304.4	68,848.7	1,376,974.0	30.6			45
JARBIDGE AO	47,684.2	48,767.8	26,009.5	162,559.4	26,009.5	520,190.2	11.7			17
OWYHEE AO	50,489.0	51,636.6	27,539.5	172,121.8	27,539.5	550,789.6	12.1			18
URLEY DO	116,872.8	119,529.0	63,748.8	398,430.0	63,748.8	1,274,976.0	28.4			10
DEEP CREEK AO	46,749.1	47,811.6	25,499.5	159,372.0	25,499.5	509,990.4	11.3			40
SNAKE RIVER AO	70,123.7	71,717.4	38,249.3	239,058.0	38,249.3	764,985.6	17.1			60
OEUR D'ALENE DO	280,494.7	286,869.6	152,997.1	956,232.0	152,997.1	3,059,942.4	68.0			24
COTTONWOOD RAH	168,296.8	172,121.8	91,798.3	573,739.2	91,798.3	1,835,965.4	40.8			60
EMERALD EMPIRE AO	112,197.9	114,747.8	61,198.8	382,492.8	61,198.8	1,223,977.0	27.2			40
DAHO FALLS DO	210,371.0	215,152.2	114,747.8	717,174.0	114,747.8	2,294,956.8	51.0			18
BIG BUTTE AO	63,111.3	64,545.7	34,424.4	215,152.2	34,424.4	688,487.0	15.3			30
MEDICINE LODGE AO	84,148.4	86,060.9	45,899.1	286,869.6	45,899.1	917,982.7	20.4			40
POCATELLO RAH	63,111.3	64,545.7	34,424.3	215,152.2	34,424.3	688,487.1	15.3			30
SODA SPGS AO										—
ALMON DO	175,309.2	179,293.5	95,623.2	597,645.0	95,623.2	1,912,464.0	42.5			15
CHALLIS AO	136,741.2	139,848.9	74,586.1	466,163.1	74,586.1	1,491,721.9	33.2			78
LEMHI AO	38,568.0	39,444.6	21,037.1	131,481.9	21,037.1	420,742.1	9.3			22
HOSHONE DO	105,185.6	107,576.1	57,373.9	358,587.0	57,373.9	1,147,478.4	25.5			9
BENNETT HILLS AO	50,489.4	51,636.5	27,539.5	172,121.8	27,539.5	550,789.6	12.2			48
MONUMENT AO	54,696.5	55,939.6	29,834.4	186,465.2	29,834.4	596,688.8	13.3			52

HEN
AIT : ID

	NODE ILE	NODE ATTRIBUTE FILE	LINE FILE	LINE ATTRIBUTE FILE	LYGON ILE	POLYGON ATTRIBUTE FILE	~~QUAD FILE~~	~~BOUNDARY FILE~~	SPECIAL US E	
	188,562.0	192,847.5	102,852.0	214,275.0	89.3	357.1				
Do	45,254.9	46,283.4	24,684.5	51,426.0	21.4	85.7				24%
Ao	9,051.0	9,256.7	4,936.9	10,285.2	4.3	17.1				20%
Ao	20,364.7	20,827.5	11,108.0	23,141.7	9.6	38.6				45%
Ao	7,693.3	7,868.2	4,196.4	8,742.4	3.6	14.6				17%
Ao	8,145.9	8,331.0	4,443.2	9,256.7	3.9	15.4				18%
Do	18,856.2	19,284.8	10,285.2	21,427.5	8.9	35.7				10%
Ao	7,542.5	7,713.9	4,114.1	8,571.0	3.6	14.3				40%
Ao	11,313.7	11,570.9	6,171.1	12,856.5	5.4	21.4				60%
Do	45,254.9	46,283.4	24,684.5	51,426.0	21.4	85.7				24%
Ao	27,152.9	27,770.0	14,810.7	30,855.6	12.9	51.4				60%
Ao	18,102.0	18,513.4	9,873.8	20,570.4	8.6	34.3				40%
Do	33,941.2	34,712.6	18,513.4	38,569.5	16.1	64.3				18%
Ao	10,182.3	10,413.8	5,554.0	11,570.9	4.8	19.3				30%
Ao	13,576.5	13,885.0	7,405.3	15,427.8	6.4	25.7				40%
Ao	10,182.3	10,413.8	5,554.0	11,570.9	4.8	19.3				30%
AO	—	—	—	—	—	—				—
Do	28,284.3	28,927.1	15,427.8	32,141.3	13.4	53.6				15%
Ao	22,061.8	22,563.2	12,033.7	25,070.2	10.4	41.8				78%
Ao	6,222.5	6,364.0	3,394.1	7,071.1	3.0	11.8				22%
Do	16,970.6	17,356.3	9,256.7	19,284.8	8.0	32.1				9%
Ao	8,145.9	8,331.0	4,443.2	9,256.7	3.9	15.4				48%
Ao	8,824.7	9,025.3	4,813.5	10,028.1	4.1	16.7				52%

BOUNDARY

ID	FILE	FILE	FILE	FILE	FILE	FILE		FILE	FILE	
	188,562.0	192,847.5	102,852.0	214,275.0	178,560.0	714,240.0				
Do	45,254.9	46,283.4	24,684.5	51,426.0	42,854.4	171,417.6				24%
Ao	9,051.0	9,256.7	4,936.9	10,285.2	8,570.9	34,283.5				20%
Ao	20,364.7	20,827.5	11,108.0	23,141.7	19,284.5	77,137.9				45%
Ao	7,693.3	7,868.2	4,196.4	8,742.4	7,285.2	29,141.0				17%
Ao	8,145.9	8,331.0	4,443.2	9,256.7	7,713.8	30,855.2				18%
Do	18,856.2	19,284.8	10,285.2	21,427.5	17,856.0	71,424.0				10%
Ao	7,542.5	7,713.9	4,114.1	8,571.0	7,142.4	28,569.6				40%
Ao	11,313.7	11,570.9	6,171.1	12,856.5	10,713.6	42,854.4				60%
Do	45,254.9	46,283.4	24,684.5	51,426.0	42,854.4	171,417.6				24%
Ao	27,152.9	27,770.0	14,810.7	30,855.6	25,712.6	102,850.6				60%
Ao	18,102.0	18,513.4	9,873.8	20,570.4	17,141.8	68,567.0				40%
Do	33,941.2	34,712.6	18,513.4	38,569.5	32,140.8	128,563.2				18%
Ao	10,182.3	10,413.8	5,554.0	11,570.9	9,642.2	38,569.0				30%
Ao	13,576.5	13,885.0	7,405.3	15,427.8	12,856.4	51,425.2				40%
Ao	10,182.3	10,413.8	5,554.0	11,570.9	9,642.2	38,569.0				30%
AO	—	—	—	—	—	—				—
Do	28,284.3	28,927.1	15,427.8	32,141.3	26,784.0	107,136.0				15%
Ao	22,061.8	22,563.2	12,033.7	25,070.2	20,891.5	83,566.1				78%
Ao	6,222.5	6,364.0	3,394.1	7,071.1	5,892.5	23,569.9				22%
Do	16,970.6	17,356.3	9,256.7	19,284.8	16,070.4	64,281.6				9%
Ao	8,145.9	8,331.0	4,443.2	9,256.7	7,713.8	30,855.2				48%
Ao	8,824.7	9,025.3	4,813.5	10,028.1	8,356.6	33,426.4				52%

SPECIAL STATUS BOUNDARIES

UHN - ATE :MT	NODE FILE (000) CHARS	ATTRIBUTE FILE (000) CHARS	LINE FILE (000) CHARS	ATTRIBUTE FILE (000) CHARS	POLYGON FILE CHARS	ATTRIBUTE FILE (000) CHARS	QUAD FILE (000) CHARS	~~BOUNDARY FILE~~	~~SPECIAL E~~	PERCENT BY SITE
	2 956 140	3 023 325	1 612 440	10 077 750	1 612 440	32 248 880	997.5			
BUTTE DO	502 544	513 965	274 115	1 713 218	274115	5 482 310	170			17%
DILLON RAH	100 509	102793	54823	342 644	54823	1096 462	34			20%
GARNET RAH	257 272	256 983	137057	856 609	137057	2 741 155	85			50%
HEADWATER AD	150 763	154 190	82234	513 965	82234	1 644 693	51			30%
DICKINSON DO	709 474	725 598	386986	2 418 660	386986	7 739 731	239			24%
LEWISTOWN DO	354 737	362799	193 493	1 209 330	193 493	3 869 866	120			12%
GREAT FALLS RAH	124158	126980	67722	423266	67722	1 354 453	42			35%
HAVRE RAH	74495	76188	40 633	253 959	40633	812 672	25			21%
JUDITH AD	78042	79816	42568	266 053	42568	851 370	26			22%
PHILLIPS RAH	42568	43536	23219	145 120	23219	464 384	14			12%
VALLEY RAH	35474	36 280	19 349	120933	19349	386 986	12			10%
MILES CITY DO	1 359 824	1 390 730	741 722	4635765	741722	14 834 485	459			46%
BIG DRY RAH	299 161	305 960	163 179	1 019 868	163179	3 263 587	101			22%
BILLINGS RAH	163 179	166 888	89007	556 292	89007	1 780 138	55			12%
POWDER RIVER RAH	135 982	139 073	74172	463 576	74172	1 483 448	46			10%
SOUTH DAKOTA RAH	761 502	778 808	415 364	2 596 028	415364	8 307 311	257			56%

[illegible] -
AIE : MT

	NODE FILE	NODE ATTRIBUTE FILE	LINE FILE	LINE ATTRIBUTE FILE	POLYGON FILE	POLYGON ATTRIBUTE FILE	~~QUAD FILE~~	~~BOUNDARY FILE~~	~~SPECIAL [illegible] FILE~~	
	180,708.0	184,815.0	98,568.0	205,350.0	85.6	342.2				
Do	30,720.4	31,418.6	16,756.6	34,909.5	14.6	58.2				17%
Ao	6,144.1	6,283.7	3,351.3	6,981.9	2.9	11.6				20%
Ao	15,360.2	15,709.3	8,378.3	17,454.8	7.3	29.1				50%
Ao	9,216.1	9,425.6	5,027.0	10,472.9	4.4	17.5				30%
Do	43,369.9	44,355.6	23,656.3	49,284.0	20.5	82.1				24%
Do	21,685.0	22,177.8	11,828.2	24,642.0	10.3	41.1				12%
Ao	7,589.7	7,762.2	4,139.9	8,624.7	3.6	4.9				35%
Ao	4,553.8	4,657.3	2,483.9	5,174.8	2.2	14.4				21%
Ao	4,770.7	4,879.1	2,602.2	5,421.2	2.3	9.0				22%
Ao	2,602.2	2,661.3	1,419.4	2,957.0	1.2	4.9				12%
Ao	2,168.5	2,217.8	1,182.8	2,464.2	1.0	4.1				10%
Do	83,125.7	85,014.9	45,341.3	94,461.0	39.4	157.4				46%
Ao	18,287.5	18,703.3	9,975.1	20,781.4	8.7	34.6				22%
Ao	9,975.1	10,201.8	5,441.0	11,335.3	4.7	18.9				12%
Ao	8,312.6	8,501.5	4,534.1	9,446.1	3.9	15.7				10%
Ao	46,550.4	47,608.3	25,391.1	52,898.2	22.1	88.2				56%

Boundary

MT	NODE FILE	ATTRIBUTE FILE	LINE FILE	LINE ATTRIBUTE FILE	POLYGON FILE	POLYGON ATTRIBUTE FILE	~~QUAD FILE~~	~~BOUNDARY FILE~~	~~SPECIAL STATUS FILE~~	
	180,708.0	184,815.0	98,568.0	205,350.0	171,120.0	714,240.0				
Do	30,720.4	31,418.6	16,756.6	34,909.5	29,090.4	121,420.8				17%
Ao	6,144.1	6,283.7	3,351.3	6,981.9	5,818.1	24,284.2				20%
Ao	15,360.2	15,709.3	8,378.3	17,454.8	14,545.2	60,710.4				50%
Ao	9,216.1	9,425.6	5,027.0	10,472.9	8,727.1	36,426.2				30%
DO	43,369.9	44,355.6	23,656.3	49,284.0	41,068.8	171,417.6				24%
Do	21,685.0	22,177.8	11,828.2	24,642.0	20,534.4	85,708.8				12%
Ao	7,589.7	7,762.2	4,139.9	8,624.7	7,187.0	29,998.1				35%
Ao	4,553.8	4,657.3	2,483.9	5,174.8	4,312.2	17,998.8				21%
Ao	4,770.7	4,879.1	2,602.2	5,421.2	4,517.6	18,855.9				22%
Ao	2,602.2	2,661.3	1,419.4	2,957.0	2,464.1	10,285.1				12%
Ao	2,168.5	2,217.8	1,182.8	2,464.2	2,053.4	8,570.9				10%
Do	83,125.7	85,014.9	45,341.3	94,461.0	78,715.2	328,550.4				46%
Ao	18,287.5	18,703.3	9,975.1	20,781.4	17,317.3	72,281.1				22%
Ao	9,975.1	10,201.8	5,441.0	11,335.3	9,445.8	39,426.0				12%
Ao	8,312.6	8,501.5	4,534.1	9,446.1	7,871.5	32,855.0				10%
Ao	46,550.4	47,608.3	25,391.1	52,898.2	44,080.5	183,988.2				56%

Special Status Boundaries

DMIN TATE : NV	NODE FILE (000) CHARS	NODE ATTRIBUTE FILE (000) CHARS	LINE FILE (000) CHARS	LINE ATTRIBUTE FILE (000) CHARS	POLYGON FILE (000) CHARS	POLYGON ATTRIBUTE FILE (000) CHARS	QUAD FILE (000) CHARS	~~STAT FILE~~	~~SPECIAL~~ [illegible]	PERCENT BY SITE
	1 536 260	1 571 175	837 960	5 237 250	837 960	16 759 200	325.5			
ATTLE MTN DO	307252	314 235	167592	1 047 450	167592	3351 840	65			20%
SHOSHONE – EUREKA AO	138 263	141 406	75416	471352	75416	1508 328	29			45%
TONOPAH RAH	168 989	172829	92176	576098	92176	1843512	36			55%
ARSON CITY DO	230439	235676	125694	785588	125694	2 513 880	49			15%
LAHONTAS AO	126741	129622	69132	432073	69 132	1382634	27			55%
WALKER AO	103698	106054	56562	353514	56 562	1 131 246	22			45%
LKO DO	230439	235676	125694	785 588	125694	2 513 880	49			15%
ELKO AO	115219	117838	62847	392 794	62847	1 256 940	24			50%
WELLS AO	115219	117838	62847	392 794	62847	1 256 940	25			50%
LY DO	230439	235676	125694	785588	125694	2513 880	49			15%
EGAN AO	115219	117838	62847	392794	62847	1 256940	24			50%
SCHELL AO	115219	117838	62847	392794	62847	1 256940	25			50%
AS VEGAS DO	307252	314235	167592	1 047 450	167592	3 351 840	65			20%
CALIENTE RAH	138263	141406	75416	471 352	75416	1 508 328	29			45%
STATELINE – ESMERALDA AO	168 989	172829	92176	576 098	92176	1 843 512	36			55%
INNEMUCCA DO	230 439	235676	125694	785 588	125694	2 513 880	49			15%
PARADISE – DENIO AO	103698	106 054	56 562	353 514	56 562	1 382 634	22			45%
SONOMA – GERLACH AO	126741	129622	69132	432073	69132	1 131 246	27			55%

NU.	NODE FILE (000)	ATTRIBUTE FILE (000)	LINE FILE (000)	ATTRIBUTE FILE (000)	YGON FILE (000)	ATTRIBUTE FILE (000)	QUAD ~~FILE~~	BOUNDARY ~~FILE~~	SPECIAL ~~FILE~~	
	315,656.0	322,830.0	172,176.0	358,700.0	149.5	598.1				
Do	63,131.2	64,566.0	34,435.2	71,740.0	29.9	119.6				20%
Ao	28,409.0	29,054.7	15,495.8	32,283.0	13.5	53.8				45%
Ao	34,722.2	35,511.3	18,939.4	39,457.0	16.4	65.8				55%
Do	47,348.4	48,424.5	25,826.4	53,805.0	22.4	89.7				15%
Ao	26,041.6	26,633.5	14,204.5	29,592.8	12.3	49.3				55%
Ao	21,306.8	21,791.0	11,621.9	24,212.2	10.1	40.4				45%
Do	47,348.4	48,424.5	25,826.4	53,805.0	22.4	89.7				15%
Ao	23,674.2	24,212.3	12,913.2	26,902.5	11.2	44.9				50%
Ao	23,674.2	24,212.2	12,913.2	26,902.5	11.2	44.8				50%
Do	47,348.4	48,424.5	25,826.4	53,805.0	22.4	89.7				15%
Ao	23,674.2	24,212.3	12,913.2	26,902.5	11.2	44.9				50%
Ao	23,674.2	24,212.2	12,913.2	26,902.5	11.2	44.8				50%
Do	63,131.2	64,566.0	34,435.2	71,740.0	29.9	119.6				20%
Ao	28,409.0	29,054.7	15,495.8	32,283.0	13.5	53.8				45%
Ao	34,722.2	35,511.3	18,939.4	39,457.0	16.4	65.8				55%
Do	47,348.4	48,424.5	25,826.4	53,805.0	22.4	89.7				15%
Ao	21,306.8	21,791.0	11,621.9	24,212.2	10.1	40.4				45%
Ao	26,041.6	26,633.5	14,204.5	29,592.8	12.3	49.3				55%

BOUNDARY

NO.	FILE (000)	ATTRIBUTE FILE (000)	LINE FILE (000)	ATTRIBUTE FILE (000)	POLYGON FILE (000)	ATTRIBUTE FILE (000)	~~FILE~~	~~FILE~~	~~STATUS~~ E	
	315,656.0	322,830.0	172,176.0	358,700.0	298,920.0	1,195,680.0				
Do	63,131.2	64,566.0	34,435.2	71,740.0	59,784.0	538,056.0				20%
Ao	28,409.0	29,054.7	15,495.8	32,283.0	26,902.8	242,125.2				45%
Ao	34,722.2	35,511.3	18,939.4	39,457.0	32,881.2	295,930.8				55%
Do	47,348.4	48,424.5	25,826.4	53,805.0	44,838.0	179,352.0				15%
Ao	26,041.6	26,633.5	14,204.5	29,592.8	24,660.9	98,643.6				55%
Ao	21,306.8	21,791.0	11,621.9	24,212.2	20,177.1	80,708.4				45%
Do	47,348.4	48,424.5	25,826.4	53,805.0	44,838.0	179,352.0				15%
Ao	23,674.2	24,212.3	12,913.2	26,902.5	22,419.0	89,676.0				50%
Ao	23,674.2	24,212.2	12,913.2	26,902.5	22,419.0	89,676.0				50%
Do	47,348.4	48,424.5	25,826.4	53,805.0	44,838.0	179,352.0				15%
Ao	23,674.2	24,212.3	12,913.2	26,902.5	22,419.0	89,676.0				50%
Ao	23,674.2	24,212.2	12,913.2	26,902.5	22,419.0	89,676.0				50%
Do	63,131.2	64,566.0	34,435.2	71,740.0	59,784.0	239,136.0				20%
Ao	28,409.0	29,054.7	15,495.8	32,283.0	26,902.8	107,611.2				45%
Ao	34,722.2	35,511.3	18,939.4	39,457.0	32,881.2	131,524.8				55%
Do	47,348.4	48,424.5	25,826.4	53,805.0	44,838.0	179,352.0				15%
Ao	21,306.8	21,791.0	11,621.9	24,212.2	20,177.1	80,708.4				45%
Ao	26,041.6	26,633.5	14,204.5	29,592.8	24,660.9	98,643.6				55%

SPECIAL STATUS BOUNDARIES

[illegible] - ATE :NM	NODE FILE (000) CHARS	ATTRIBUTE FILE (000) CHARS	LINE FILE (000) CHARS	ATTRIBUTE FILE (000) CHARS	POLYGON FILE (000) CHARS	ATTRIBUTE FILE (000) CHARS	FILE (000) CHARS	~~BOUNDARY FILE~~	~~SPECIAL [illegible]TUS [illegible]E~~	PERCENT BY SITE
	1, 892, 176	1,935,180	1,032,096	6,450,600	1,032,096	20, 641,920	1564.8			
LBUQUERQUE DO	208139	212870	113530	709566	113530	2270611	172			11%
FARMINGTON RAH	56198	57475	30653	191583	30653	613065	46			27%
RIO PEUERCO AO	56198	57475	30653	191583	30653	613065	46			27%
TAOS RAH	95744	97920	52224	326400	52224	1044481	79			46%
AS CRUCES DO	245983	251573	134172	838578	134172	2683450	203			13%
LAS CRUCES/ LORDSBURG RAH	56576	57862	30860	192873	30860	617193	47			23%
SOCORRO RAH	54116	55346	29518	184487	29518	590359	45			22%
WHITE SANDS AO	135290	138365	73795	461218	73795	1475897	112			55%
OSWELL DO	624418	638609	340592	2128698	340592	6811834	576			33%
CARLSBAD RAH	530755	542818	289503	1809393	289503	5790058	439			85%
ROSWELL AO	93663	95791	51089	319305	51089	1021775	77			15%
ULSA DO	832557	851479	454122	2838264	454122	9082445	688			44%
OKLAHOMA RAH	832557	851479	454122	2838264	454122	9082445	688			100%

UNIT - DATE : NM	NODE FILE (000)	NODE ATTRIBUTE FILE (000)	LINE FILE (000)	LINE ATTRIBUTE FILE (000)	POLYGON FILE (000)	POLYGON ATTRIBUTE FILE (000)	~~QUAD FILE~~	~~BOUNDARY FILE~~	~~SPECIAL [illegible]E~~	
	171,204.0	175,095.0	93,384.0	194,550.0	81.1	324.5				
Do	18,832.4	19,260.5	11,272.2	21,400.5	8.9	35.7				11%
Ao	5,084.8	5,200.3	2,773.5	5,778.1	2.4	9.6				27%
Ao	5,084.8	5,200.3	2,773.5	5,778.1	2.4	9.6				27%
Ao	8,662.9	8,859.8	4,725.2	9,844.3	4.1	16.4				46%
Do	22,256.5	22,762.4	12,139.9	25,291.5	10.5	42.2				13%
Ao	5,119.0	5,235.3	2,792.2	5,817.0	2.4	9.7				23%
Ao	4,896.4	5,007.7	2,670.8	5,564.1	2.3	9.3				22%
Ao	12,241.1	12,519.3	6,677.0	13,910.3	5.8	23.2				55%
Do	56,497.3	57,781.4	30,816.7	64,201.5	26.8	107.1				33%
Ao	48,022.7	49,114.2	26,194.2	54,571.3	22.7	91.0				85%
Ao	8,474.6	8,667.2	4,622.5	9,630.2	4.1	16.1				15%
Do	75,329.8	77,041.8	41,089.0	85,602.0	35.7	142.8				44%
Ao	75,329.8	77,041.8	41,089.0	85,602.0	35.7	142.8				100%

BOUNDARY

ATE NM	NODE ILE (000)	ATTRIBUTE FILE (000)	LINE FILE (000)	ATTRIBUTE FILE (000)	OLYGON ILE (000)	ATTRIBUTE FILE (000)	~~QUAD FILE~~	~~BOUNDARY FILE~~	~~SPECIAL TUS E~~	
	171,204.0	175,095.0	93,384.0	194,550.0	162,120.0	648,480.0				
Do	18,832.4	19,260.5	11,272.2	21,400.5	17,833.2	74,632.8				11%
Ao	5,084.8	5,200.3	2,773.5	5,778.1	4,815.0	20,150.9				27%
Ao	5,084.8	5,200.3	2,773.5	5,778.1	4,815.0	20,150.9				27%
Ao	8,662.9	8,859.8	4,725.2	9,844.3	8,203.3	34,331.1				46%
Do	22,256.5	22,762.4	12,139.9	25,291.5	21,076.5	88,202.4				13%
Ao	5,119.0	5,235.3	2,792.2	5,817.0	4,847.4	20,286.6				23%
Ao	4,896.4	5,007.7	2,670.8	5,564.1	4,636.6	19,404.5				22%
Ao	12,241.1	12,519.3	6,677.0	13,910.3	11,591.6	48,511.3				55%
Do	56,497.3	57,781.4	30,816.7	64,201.5	53,499.6	223,898.4				33%
Ao	48,022.7	49,114.2	26,194.2	54,571.3	45,474.7	190,313.6				85%
Ao	8,474.6	8,667.2	4,622.5	9,630.2	8,024.9	33,584.8				15%
Do	75,329.8	77,041.8	41,089.0	85,602.0	71,332.8	298,531.2				44%
Ao	75,329.8	77,041.8	41,089.0	85,602.0	71,332.8	298,531.2				100%

SPECIAL STATUS BOUNDARIES

UNIT: STATE: OR PAGE 1	NODE FILE (000)	ATTRIBUTE FILE (000)	LINE FILE (000)	ATTRIBUTE FILE (000)	POLYGON FILE (000)	ATTRIBUTE FILE (000)	FILE (000)	BOUNDARY FILE	TUS E
OREGON	2283644.0	2335545.0	1245624.0	7785150.0	1245624.0	24912480.0	486.0		
BURNS DO	205528.0	210199.0	112106.1	700663.5	112106.1	2242123.2	43.7		
HREE RIVERS AO	143869.6	147139.3	78474.3	490464.5	78474.3	1569486.2	30.6		
ANDREWS AO	61658.4	63059.7	33631.8	210199.0	33631.8	672637.0	13.1		
OOS BAY DO	68509.3	70066.3	37368.7	233554.5	37368.7	747374.4	14.6		
TIOGA AO	17127.3	17516.6	9342.2	58388.6	9342.2	186843.6	3.6		
UMPQUA AO	17127.3	17516.6	9342.2	58388.6	9342.2	186843.6	3.6		
MYRTLEWOOD AO	34254.7	35033.1	18684.3	116777.3	18684.3	373687.2	7.4		
EUGENE DO	68509.3	70066.3	37368.7	233554.5	37368.7	747374.4	14.6		
NOTI AO	10276.4	10509.9	5605.3	35033.2	5605.3	112106.1	2.2		
DORENA AO	10276.4	10509.9	5605.3	35033.2	5605.3	112106.1	2.2		
MOHAWK AO	27403.7	28026.5	11210.6	93421.8	11210.6	298949.8	5.8		
ORANE AO	20552.8	21020.0	14947.5	70066.3	14947.5	224212.4	4.4		
LAKEVIEW DO	205528.0	210199.0	112106.1	700663.5	112106.1	2242123.2	43.7		
WARNER LAKE AO	61658.4	63059.7	33631.8	210199.0	33631.8	672637.0	13.1		
HIGH DESERT AO	61658.4	63059.7	33631.8	210199.0	33631.8	672637.0	13.1		
KLAMATH FALLS AO	82211.2	84079.6	44842.5	280265.5	44842.5	896849.2	17.5		

[illegible] . TATE : OR PAGE 2	NODE ILE (000)	ATTRIBUTE FILE (000)	LINE FILE (000)	ATTRIBUTE FILE (000)	POLYGON ILE (000)	ATTRIBUTE FILE (000)	QUAD FILE (000)	BOUNDARY FILE	SPECIAL TUS E
MEDFORD DO	68509.3	70066.3	37368.7	233554.5	37368.7	747374.4	14.6		
KLAMATH AO	17127.3	17516.6	9342.2	58388.6	9342.2	186843.6	3.6		
BUTTE FALLS AO	13701.9	14013.2	7473.8	46710.8	7473.8	149474.9	2.9		
JACKSONVILLE AO	10276.4	10509.9	5605.3	35033.2	5605.3	112106.1	2.2		
GRANTS PASS AO	20552.8	21020.0	14947.5	70066.3	14947.5	224212.4	4.4		
GLENDALE AO	6850.9	7006.6	3736.9	23355.4	3736.9	74737.4	1.5		
PRINEVILLE DO	205528.0	210199.0	112106.1	700663.5	112106.1	2242123.2	43.7		
CENTRAL OR AO	82211.2	84079.6	44842.5	280265.5	44842.5	896849.2	17.5		
DESCHUTES AO	123316.8	126119.4	67263.6	420398.0	67263.6	1345274.0	26.2		
ROSEBURG DO	45672.9	46710.9	24912.5	155703.0	24912.5	498249.6	9.7		
NO UMPQUA AO	25120.1	25691.0	13701.9	85636.6	13701.9	274037.3	5.3		
SO UMPQUA AO	9134.6	9342.2	4982.5	31140.7	4982.5	99650.0	2.0		
DILLARD AO	4567.3	4671.1	2491.2	15570.3	2491.2	49825.0	1.0		
DRAIN AO	6850.9	7006.6	3736.9	23355.4	3736.9	74737.3	1.4		
SALEM DO	137018.6	140132.7	74737.4	467109.0	74737.4	1494748.8	29.1		
SANTIAM AO	20552.8	21019.9	11210.6	70066.3	11210.6	224212.3	4.3		
ALSEA AO	27403.7	28026.5	14947.5	93421.8	14947.5	298949.8	5.8		
TILLAMOOK AO	31514.3	32230.5	17189.6	107435.1	17189.6	343792.2	6.7		
YAMHILL AO	30144.1	30829.3	16442.2	102764.0	16442.2	328844.7	6.5		
CLACKAMAS AO	27403.7	28026.5	14947.5	93421.8	14947.5	298949.8	5.8		

ATE: OR PAGE 3	NODE ILE (000)	ATTRIBUTE FILE (000)	LINE FILE (000)	ATTRIBUTE FILE (000)	POLYGON LE (000)	ATTRIBUTE FILE (000)	QUAD FILE	BOUNDARY FILE	SPECIAL US E
SPOKANE DO	936294.0	957573.4	510705.8	3191911.5	510705.8	10214116.8	199.2		
BORDER AO	468147.0	478786.7	255352.9	1585955.7	255352.9	5107058.4	99.6		
WENATCHEE AO	468147.0	478786.7	255352.9	1585955.7	255352.9	5107058.4	99.6		
YALE DO	342546.6	350331.7	186843.6	1167772.5	186843.6	3736872.0	72.9		
O MALHEUR AO	85636.6	87582.9	46710.9	291943.1	46710.9	934218.0	18.2		
BAKER AO	154146.0	157649.3	84079.6	525497.6	84079.6	1681592.4	32.8		
SO MALHEUR AO	102764.0	105099.5	56053.1	350331.8	56053.1	1121061.6	21.9		

HIN ATE : OR	NODE LE 000)	ATTRIBUTE FILE (000)	LINE FILE (000)	ATTRIBUTE FILE (000)	POLYGON ILE 000)	ATTRIBUTE FILE (000)	~~FILE~~	~~BOUNDARY FILE~~	~~SPECIAL~~ ~~Aux~~ ~~E~~	
SO	232,144.0	237,420.0	126,624.0	263,800.0	109.9	439.7				
DO	20,893.0	21,367.8	11,396.2	23,742.0	9.9	39.6				9%
AO	14,625.1	14,957.5	7,977.3	16,619.4	6.9	27.7				70%
AO	6,267.9	6,410.3	3,418.8	7,122.6	3.0	11.9				30%
DO	6,964.3	7,122.6	3,798.7	7,914.0	3.3	13.2				3%
AO	1,741.1	1,780.7	949.7	1,978.5	0.8	3.3				25%
AO	1,741.1	1,780.7	949.7	1,978.5	0.8	3.3				25%
AO	3,482.1	3,561.3	1,899.4	3,957.0	1.6	6.6				50%
DO	6,964.3	7,122.6	3,798.7	7,914.0	3.3	13.2				3%
AO	1,044.6	1,068.4	569.8	1,187.1	0.5	2.0				15%
AO	1,044.6	1,068.4	569.8	1,187.1	0.5	2.0				15%
AO	2,785.7	2,849.0	1,519.5	3,165.6	1.3	5.3				40%
AO	2,089.3	2,136.8	1,139.6	2,374.2	1.0	4.0				30%
DO	20,893.0	21,367.8	11,396.2	23,742.0	9.9	39.6				9%
AO	6,267.9	6,410.3	3,418.8	7,122.6	3.0	11.9				30%
AO	6,267.9	6,410.3	3,418.8	7,122.6	3.0	11.9				30%
AO	8,357.2	8,547.2	4,558.5	9,496.8	3.9	15.8				40%

BOUNDARY

IIN ATE : DR	NODE FILE (000)	ATTRIBUTE FILE (000)	LINE FILE (000)	ATTRIBUTE FILE (000)	POLYGON FILE (000)	ATTRIBUTE FILE	~~QUAD FILE~~	~~BOUNDARY FILE~~	~~SPECIAL STATUS FILE~~	
DO	6,964.3	7,122.6	3,798.7	7,914.0	3.3	13.2				3%
AO	1,741.1	1,780.7	949.7	1,978.5	0.8	3.3				25%
AO	1,392.9	1,424.5	759.7	1,582.8	0.7	2.6				20%
AO	1,044.6	1,068.4	569.8	1,187.1	0.5	2.0				15%
AO	2,089.3	2,136.8	1,139.6	2,374.2	1.0	4.0				30%
AO	696.4	712.3	379.9	791.4	0.3	1.3				10%
DO	20,893.0	21,367.8	11,396.2	23,742.0	9.9	39.6				9%
AO	8,357.2	8,547.1	4,558.5	9,496.8	4.0	15.8				40%
AO	12,535.8	12,820.7	6,837.7	14,245.2	5.9	23.7				60%
DO	4,642.9	4,748.4	2,532.5	5,276.0	2.2	8.8				2%
AO	2,553.6	2,611.6	1,392.9	2,901.8	1.2	4.8				55%
AO	928.6	949.7	506.5	1,055.2	0.4	1.8				20%
AO	464.3	474.8	253.2	527.6	0.2	0.9				10%
AO	696.4	712.3	379.9	791.4	0.3	1.3				15%
DO	13,928.6	14,245.2	7,597.4	15,828.0	6.6	26.4				6%
AO	2,089.3	2,136.8	1,139.6	2,374.2	1.0	4.0				15%
AO	2,785.7	2,849.0	1,519.5	3,165.6	1.3	5.3				20%
AO	3,203.6	3,276.4	1,747.4	3,640.4	1.5	6.1				23%
AO	3,064.3	3,133.9	1,671.4	3,482.2	1.5	5.8				22%
AO	2,785.7	2,849.0	1,519.5	3,165.6	1.3	5.3				20%

BOUNDARY

ATE :OR	ILE (000)	ATTRIBUTE FILE (000)	LINE FILE (000)	ATTRIBUTE FILE (000)	POLYGON ILE (000)	ATTRIBUTE FILE (000)	FILE	FILE	TUS E	
										4TT
DO	95,179.0	97,342.2	51,915.8	108,158.0	45.1	180.3				41%
AO	47,589.5	48,671.1	25,957.9	54,079.0	22.5	90.1				50%
AO	47,589.5	48,671.1	25,957.9	54,079.0	22.6	90.2				50%
DO	34,821.6	35,613.0	18,993.6	39,570.0	16.5	66.0				15%
AO	8,705.4	8,903.3	4,748.4	9,892.5	4.1	16.5				25%
AO	15,669.7	16,025.9	8,547.1	17,806.5	7.4	29.7				45%
AO	10,446.5	10,683.9	5,698.1	11,871.0	4.9	19.8				30%

BOUNDARY

OR	[illegible] FILE	ATTRIBUTE FILE	LINE FILE	ATTRIBUTE FILE	POLYGON FILE	ATTRIBUTE FILE	[illegible] FILE	BOUNDARY FILE	SPECIAL STATUS FILE	
	231,144.0	231,420.0	126,624.0	263,800.0	219,840.0	879,360.0				
	20,893.0	21,367.8	11,396.2	23,742.0	19,785.6	79,142.4				7%
	14,625.1	14,957.5	7,977.3	16,619.4	13,849.9	55,399.7				10%
	6,267.9	6,410.3	3,418.8	7,122.6	5,935.7	23,742.7				30%
	6,964.3	7,122.6	3,798.7	7,914.0	6,595.2	26,380.8				3%
	1,741.1	1,780.7	949.7	1,978.5	1,648.8	6,595.2				25%
	1,741.1	1,780.7	949.7	1,978.5	1,648.8	6,595.2				25%
	3,482.1	3,561.3	1,899.4	3,957.0	3,297.6	13,190.4				50%
	6,964.3	7,122.6	3,798.7	7,914.0	6,592.2	26,380.8				3%
	1,044.6	1,068.4	569.8	1,187.1	989.3	3,957.1				15%
	1,044.6	1,068.4	569.8	1,187.1	989.3	3,957.1				15%
	2,785.7	2,849.0	1519.5	3,165.6	2,638.1	10,552.3				40%
	2,089.3	2,136.8	1,139.6	2,374.2	1,978.6	7,914.2				30%
	20,893.0	21,367.8	11,396.2	23,742.0	19,785.6	79,142.4				9%
	6,267.9	6,410.3	3,418.8	1,122.6	5,935.7	23,742.7				30%
	6,267.9	6,410.3	3,418.8	7,122.6	5,935.7	23,742.7				30%
	8,357.2	8,547.2	4,558.5	9,496.8	7,914.2	31,657.0				40%

SPECIAL STATUS BOUNDARIES

OR	[illegible]	ATTRIBUTE FILE (000)	LINE FILE (000)	ATTRIBUTE FILE (000)	POLYGON FILE (000)	ATTRIBUTE FILE	FILE	FILE	STATUS	
	6,964.3	7,122.6	3,798.7	7,914.0	6,595.2	26,380.8				3%
	1,741.1	1,780.7	949.7	1,978.5	1,648.8	6,595.2				25%
	1,392.9	1,424.5	759.7	1,582.8	1,319.0	5,276.2				20%
	1,044.6	1,068.4	569.8	1,187.1	989.3	3,957.1				15%
	2,089.3	2,136.8	1,139.6	2,374.2	1,978.6	7,914.2				30%
	696.4	712.3	379.9	791.4	659.5	2,638.1				10%
	20,893.0	21,367.8	11,396.2	23,742.0	19,785.6	79,142.4				9%
	8,357.2	8,547.1	4,558.5	9,496.8	7,914.2	31,657.0				40%
	12,535.8	12,820.7	6,837.7	14,245.2	11,871.4	47,485.4				60%
	4,642.9	4,748.4	2,532.5	5,276.0	4,396.8	17,587.2				2%
	2,553.6	2,611.6	1,392.9	2,901.8	2,418.2	9,673.0				55%
	928.6	949.7	506.5	1,055.2	879.4	3,517.4				20%
	464.3	474.8	253.2	527.6	439.7	1,758.7				10%
	696.4	712.3	379.9	791.4	659.5	2,638.1				15%
	13,928.6	14,245.2	7,597.4	15,828.0	13,190.4	52,761.6				6%
	2,089.3	2,136.8	1,139.6	2,374.2	1,978.6	7,914.2				15%
	2,785.7	2,849.0	1,519.5	3,165.6	2,638.1	10,552.3				20%
	3,203.6	3,276.4	1,747.4	3,640.4	3,033.8	12,135.2				23%
	3,064.3	3,133.9	1,671.4	3,482.2	2,901.9	11,607.6				22%
	2,785.7	2,849.0	1,519.5	3,165.6	2,638.1	10,552.3				20%

SPECIAL STATUS BOUNDARIES

OR	NODE FILE	ATTRIBUTE FILE	LINE FILE	ATTRIBUTE FILE	POLYGON FILE	ATTRIBUTE FILE	QUAD FILE	BOUNDARY FILE	SPECIAL STATUS FILE	
										41T
	95,179.0	97,342.2	51,915.8	108,158.0	90,134.4	360,537.6				41%
	47,589.5	48,671.1	25,957.9	54,079.0	45,067.2	180,268.8				50%
	47,589.5	48,671.1	25,957.9	54,079.0	45,067.2	180,268.8				50%
	34,821.6	35,613.0	18,993.6	39,570.0	32,976.0	131,904.0				15%
	8,705.4	8,903.3	4,748.4	9,892.5	8,244.0	32,976.0				25%
	15,669.7	16,025.9	8,547.1	17,806.5	14,839.2	59,356.8				45%
	10,446.5	10,683.9	5,698.1	11,871.0	9,892.8	39,571.2				30%

SPECIAL STATUS BOUNDARIES

[illegible] [illegible]ALE : UT	NODE FILE	NODE ATTRIBUTE FILE	LINE FILE	LINE ATTRIBUTE FILE	POLYGON FILE	POLYGON ATTRIBUTE FILE	QUAD FILE	~~BOUNDARY FILE~~	~~SPECIAL~~ [illegible]E	
UTAH	1160038.0	1186402.5	632748.0	3954675.0	632748.0	12654960.0	288.0			
CEDAR CITY DO	232007.6	237280.5	126549.6	790935.0	126549.6	2530992.0	57.6			20%
BEAVER RIVER AO	81202,7	83048.2	44292.4	276827.3	44292.4	885847.2	20.2			35%
DIXIE AO	34801,1	35592,1	18982.4	118640.2	18982.4	379648.8	8.6			15%
ESCALANTE AO	46401,5	47456.1	25309.9	158187.0	25309.9	506198,4	11,5			20%
KANAB AO	69602.3	71184.1	37964.9	237280.5	37964.9	759297.6	17.3			30%
MOAB DO	266808.7	272872.6	145532.0	909575.2	145532.0	2910640.8	66.2			23%
GRAND AO	80042.6	81861.8	43659.6	272872.6	43659.6	873192,2	19.9			30%
PRICE RIVER AO	45357.5	46388.3	24740.4	154627.8	24740.4	494808,9	11.2			17%
SAN JUAN AO	93383.0	95505.4	50936.2	318351,3	50936.2	1018724,3	23.2			35%
SAN RAFAEL AO	48025.6	49117.1	26195.8	163723.5	26195.8	523915.4	11.9			18%
RICHFIELD DO	232007.6	237280.5	126549.6	790935.0	126549.6	2530992.0	57.6			20%
HENRY MTN AO	53361.8	54574.5	29106.4	181915.0	29106.4	582128,1	13.3			23%
HOUSE RANGE AO	58001.9	59320,1	31637.4	197733.8	31637.4	632748.0	14.4			25%
SEVIER RIVER AO	64962,1	66438,6	35433.9	221461,8	35433.9	708677.8	16,1			28%
WARM SPRINGS AO	55681.8	56947.3	30371.9	189824,4	30371.9	607438.1	13.8			24%
SALT LAKE DO	313210.3	320328.7	170842.0	1067762.2	170842.0	3416839.2	77.8			27%
BEAR RIVER AO	187926,2	192197,2	102505,2	640657,3	102505.2	2050103,5	46.7			60%
PONY EXPRESS AO	125284,1	128131.5	88336.8	427104.9	88336.8	1366735.7	31,1			40%
VERNAL DO	116003.8	118640.2	63274.8	395467.5	63274.8	1265496.0	28.8			10%
BOOK CLIFFS AO	40601.3	41524,1	22146.2	138413,6	22146.2	442923.6	10.1			35%
DIAMOND MTN AO	75402,5	77116,1	41128.6	257033.9	41128.6	822572,4	18.7			65%

UNIT NAME: UT	NODE FILE	ATTRIBUTE FILE	LINE FILE	ATTRIBUTE FILE	POLYGON FILE	ATTRIBUTE FILE	~~FILE~~	~~BOUNDARY FILE~~	~~SPECIAL TUS E~~
	176,902.0	180,922.5	96,492.0	201,025.0	167,520.0	670,080.0			
Do	35,380.4	36,184.5	19,298.4	40,205.0	33,504.0	134,016.0	20%		
Ao	12,383.1	12,664.6	6,754.4	14,071.8	11,726.4	46,905.6	35%		
Ao	5,307.1	5,427.7	2,894.8	6,030.8	5,025.6	20,102.4	15%		
Ao	7,076.1	7,236.9	3,859.7	8,041.0	6,700.8	26,803.2	20%		
Ao	10,614.1	10,855.4	5,789.5	12,061.5	10,051.2	40,204.8	30%		
Do	40,687.5	41,612.2	22,193.2	46,235.8	38,529.6	154,118.4	23%		
Ao	12,206.2	12,483.7	6,657.9	13,870.7	11,558.9	46,235.5	30%		
Ao	6,916.9	7,074.1	3,772.8	7,860.1	6,550.0	26,200.1	17%		
Ao	14,240.6	14,564.3	7,767.6	16,182.5	13,485.4	53,941.4	35%		
Ao	7,323.7	7,490.2	3,994.8	8,322.4	6,935.3	27,741.3	18%		
Do	35,380.4	36,184.5	19,298.4	40,205.0	33,504.0	134,016.0	20%		
Ao	8,137.5	8,322.4	4,438.6	9,247.2	7,705.9	30,823.7	23%		
Ao	8,845.1	9,046.1	4,824.6	10,051.3	8,376.0	33,504.0	25%		
Ao	9,906.5	10,131.7	5,403.6	11,257.4	9,381.1	37,524.5	28%		
Ao	8,491.3	8,684.3	4,631.6	9,649.2	8,041.0	32,163.8	24%		
Do	47,763.5	48,849.1	26,052.8	54,276.8	45,230.4	180,921.6	27%		
Ao	28,658.1	29,309.4	15,631.7	32,566.1	27,138.2	108,553.0	60%		
Ao	19,105.4	19,539.7	10,421.1	21,710.7	18,092.2	72,368.6	40%		
Do	17,690.2	18,092.3	9,649.2	20,102.5	16,752.0	67,008.0	10%		
Ao	6,191.6	6,332.3	3,377.2	7,035.9	5,863.2	23,452.8	35%		
Ao	11,498.6	11,760.0	6,272.0	13,066.6	10,888.8	43,555.2	65%		

SPECIAL STATUS BOUNDARIES

UT	NODE ILE	ATTRIBUTE FILE	LINE FILE	ATTRIBUTE FILE	POLYGON FILE	ATTRIBUTE FILE	~~FILE~~	~~FILE~~	~~STATUS LE~~
	176,902.0	180,922.5	96,492.0	201,025.0	83.8	335.0			
Do	35,380.4	36,184.5	19,298.4	40,205.0	16.8	67.0	20%		
Ao	12,383.1	12,664.6	6,754.4	14,071.8	5.9	23.5	35%		
Ao	5,307.1	5,427.7	2,894.8	6,030.8	2.5	10.1	15%		
Ao	7,076.1	7,236.9	3,859.7	8,041.0	3.4	13.4	20%		
Ao	10,614.1	10,855.4	5,789.5	12,061.5	17.1	20.0	30%		
Do	40,687.5	41,612.2	22,193.2	46,235.8	19.3	77.1	23%		
Ao	12,206.2	12,483.7	6,657.9	13,870.7	5.8	23.1	30%		
Ao	6,916.9	7,074.1	3,772.8	7,860.1	3.3	13.1	17%		
Ao	14,240.6	14,564.3	7,767.6	16,182.5	6.7	27.0	35%		
Ao	7,323.7	7,490.2	3,994.8	8,322.4	3.5	13.8	18%		
Do	35,380.4	36,184.5	19,298.4	40,205.0	16.8	67.0	20%		
Ao	8,137.5	8,322.4	4,438.6	9,247.2	3.9	15.4	23%		
Ao	8,845.1	9,046.1	4,824.6	10,051.3	4.2	16.8	25%		
Ao	9,906.5	10,131.7	5,403.6	11,257.4	4.7	18.8	28%		
Ao	8,491.3	8,684.3	4,631.6	9,649.2	4.0	16.1	24%		
Do	47,763.5	48,849.1	26,052.8	54,276.8	22.6	90.5	27%		
Ao	28,658.1	29,309.4	15,631.7	32,566.1	13.6	54.3	60%		
Ao	19,105.4	19,539.7	10,421.1	21,710.7	9.0	36.2	40%		
Do	17,690.2	18,092.3	9,649.2	20,102.5	8.4	33.5	10%		
Ao	6,191.6	6,332.3	3,377.2	7,035.9	2.9	11.7	35%		
Ao	11,498.6	11,760.0	6,272.0	13,066.6	5.4	21.8	65%		

BOUNDARY

[illegible] ATE :WY	NODE FILE (000)	NODE ATTRIBUTE FILE (000)	LINE FILE (000)	LINE ATTRIBUTE FILE (000)	POLYGON FILE (000)	POLYGON ATTRIBUTE FILE (000)	QUAD FILE (000)	BOUNDARY FILE	SPECIAL [illegible] FILE	
WYOMING	1528758.0	1563502.5	833868.0	5211675.0	833868.0	16.677360.0	592.5			
CASPER DO	993692.7	1016276.6	542014.2	3387588.7	542014.2	10840284.0	385.1			65%
BUFFALO AO	99369.3	101627.6	54201.4	338758.9	54201.4	1084029.0	38.5			10%
NEWCASTLE AO	745269.5	762207.5	406510.7	2540691.5	406510.7	8130213.0	288.8			75%
PLATTE RIVER AO	149053.9	152441.5	81302.1	508138.3	81302.1	1626032.0	57.8			15%
RAWLINS DO	275176.4	281430.4	150086.2	938101.5	150086.2	3001924.8	106.5			18%
DIVIDE AO	55035.3	56286.1	30017.2	187620.3	30017.2	600384.9	21.3			20%
LANDER AO	101815.2	104129.2	55531.9	347097.6	55531.9	1110712.2	39.4			37%
MEDICINE BOW AO	118325.9	121015.1	64537.1	403383.6	64537.1	1290827.7	45.8			43%
ROCK SPRINGS DO	152875.8	156350.2	83386.8	521167.5	83386.8	1667736.0	59.2			10%
BIG SANDY AO	33632.7	34397.0	18345.1	114656.9	18345.1	366901.9	13.0			22%
KEMMERER AO	39747.7	40651.1	21680.6	135503.5	21680.6	433611.4	15.4			26%
PINEDALE AO	48920.2	50032.1	26683.8	166773.6	26683.8	533675.5	18.9			32%
SALT WELLS AO	30575.2	31270.0	16677.3	104233.5	16677.3	333547.2	11.9			20%
WORLAND DO	107013.1	109445.2	58370.8	364817.2	58370.8	1167415.2	41.5			7%
CODY AO	64207.9	65667.1	35022.5	218890.3	35022.5	700449.1	24.9			60%
GRASS CREEK AO	23542.9	24077.9	12841.6	80259.8	12841.6	256831.4	9.1			22%
WASHAKIE AO	19262.3	19700.2	10506.7	65667.1	10506.7	210134.7	7.5			18%

BASIC FRAMEWORK FOR SPATIAL INFORMATION AND BASIC STORAGE

ALL WY	NODE FILE	ATTRIBUTE FILE	LINE FILE	ATTRIBUTE FILE	POLYGON FILE	ATTRIBUTE FILE	QUAD FILE	BOUNDARY FILE	SPECIAL LE	
	160,578.0	164,227.5	87,588.0	182,475.0	81.6	326.4				
Do	104,375.7	106,747.9	56,932.2	118,608.8	53.0	212.2	65%			
Ao	10,437.6	10,674.8	5,693.2	11,860.9	5.3	21.2	10%			
Ao	78,281.8	80,060.9	42,699.2	88,956.6	39.7	159.0	75%			
Ao	15,656.4	16,012.2	8,539.8	17,791.3	8.0	31.8	15%			
Do	28,904.0	29,561.0	15,765.8	32,845.5	14.7	58.8	18%			
Ao	5,780.8	5,912.2	3,153.2	6,569.1	2.9	11.8	20%			
Ao	10,694.5	10,937.6	5,833.4	12,152.8	5.4	21.7	37%			
Ao	12,428.7	12,711.2	6,779.3	14,123.6	6.4	25.3	43%			
Do	16,057.8	16,422.8	8,758.8	18,247.5	8.2	32.6	10%			
Ao	3,532.7	3,613.0	1,926.9	4,014.5	1.8	7.2	22%			
Ao	4,175.0	4,269.9	2,277.3	4,744.4	2.1	8.5	26%			
Ao	5,138.5	5,255.3	2,802.8	5,839.2	2.6	10.4	32%			
Ao	3,211.6	3,284.6	1,751.8	3,649.5	1.6	6.5	20%			
Do	11,240.5	11,495.9	6,131.2	12,773.3	5.7	22.8	7%			
Ao	6,744.3	6,897.6	3,678.7	7,664.0	3.4	13.7	60%			
Ao	2,472.9	2,529.1	1,348.9	2,810.1	1.3	5.0	22%			
Ao	2,023.3	2,069.3	1,103.6	2,299.2	1.0	4.1	18%			

BASIC FRAMEWORK FOR QUICK ACCESS TO ADMINISTRATIVE BOUNDARIES

DMIN TATE: WY	NODE FILE	NODE ATTRIBUTE FILE	LINE FILE	LINE ATTRIBUTE FILE	POLYGON FILE	POLYGON ATTRIBUTE FILE	QUAD FILE	BOUNDARY FILE	SPECIAL [illegible] FILE
	160,578.0	164,227.5	87,588.0	182,475.0	163,080.0	652,320.0			
DO	104,375.7	106,747.9	56,932.2	118,608.8	106,002.0	424,008.0	65%		
AO	10,437.6	10,674.8	5,693.2	11,860.9	10,600.2	42,400.8	10%		
AO	78,281.8	80,060.9	42,699.2	88,956.6	79,501.5	318,006.0	75%		
AO	15,656.4	16,012.2	8,539.8	17,791.3	15,900.3	63,601.2	15%		
DO	28,904.0	29,561.0	15,765.8	32,845.5	29,354.4	117,417.6	18%		
AO	5,780.8	5,912.2	3,153.2	6,569.1	5,870.9	23,483.5	20%		
AO	10,694.5	10,937.6	5,833.4	12,152.8	10,861.1	43,444.5	37%		
AO	12,428.7	12,711.2	6,779.3	14,123.6	12,622.4	50,489.6	43%		
DO	16,057.8	16,422.8	8,758.8	18,247.5	16,308.0	65,232.0	10%		
AO	3,532.7	3,613.0	1,926.9	4,014.5	3,587.8	14,351.0	22%		
AO	4,175.0	4,269.9	2,277.3	4,744.4	4,240.1	16,960.3	26%		
AO	5,138.5	5,255.3	2,802.8	5,839.2	5,218.6	20,874.2	32%		
AO	3,211.6	3,284.6	1,751.8	3,649.5	3,261.6	13,046.4	20%		
DO	11,240.5	11,495.9	6,131.2	12,773.3	11,415.6	45,662.4	7%		
AO	6,744.3	6,897.6	3,678.7	7,664.0	6,849.4	27,397.4	60%		
AO	2,472.9	2,529.1	1,348.9	2,810.1	2,511.4	10,045.7	22%		
AO	2,023.3	2,069.3	1,103.6	2,299.2	2,054.8	8,219.2	18%		

BASIC FRAMEWORK FOR QUICK ACCESS TO SPECIAL STATUS BOUNDARIES

MIN · ATE :ES	NODE FILE	ATTRIBUTE FILE	LINE FILE	ATTRIBUTE FILE	POLYGON FILE	ATTRIBUTE FILE	FILE	~~BOUNDARY FILE~~	SPECIAL [illegible] E	
	3,106,466.0	3,177,067.5	1,694,436.0	10,590,225.0	1,694,436.0	33,888,720.0	4,077.0			
JACKSON DO	1,366,845.0	1,397,909.7	745,551.8	4,659,699.0	745,551.8	14,911,036.8	1,793.9			44%
PLSS STATE	669,754.1	684,975.8	365,320.4	2,283,252.5	365,320.4	7,306,408.0	879.0			49%
NON PLSS ST.	697,090.9	712,933.9	380,231.4	2,376,446.5	380,231.4	7,604,628.8	914.9			51%
MILWAUKEE DO	1,739,621.0	1,779,157.8	948,884.2	5,930,526.0	948,884.2	18,877,683.2	2,283.1			56%
PLSS ST.	1,200,338.5	1,227,618.9	654,730.1	4,092,062.9	654,730.1	13,094,601.4	1,575.4			69%
NON PLSS ST	539,282.5	551,538.9	294,154.1	1,838,463.1	294,154.1	5,883,081.8	707.7			31%

MIN - TATE :ESO	NODE ILE (000)	ATTRIBUTE FILE (000)	LINE FILE (000)	ATTRIBUTE FILE (000)	OLYGON ILE (000)	ATTRIBUTE FILE (000)	[illegible] ~~FILE~~ (00	BOUNDARY ~~FILE~~	SPECIAL ~~DOC~~ E	
	216,194.0	221,107.5	117,924.0	245,675.0	204,720.0	818,880.0				
Do	95,125.4	97,287.3	51,886.6	108,097.0	90,076.8	360,307.2				44%
	46,611.5	47,670.8	25,424.4	52,967.5	44,137.6	176,550.5				49%
	48,513.9	49,616.5	26,462.2	55,129.5	45,939.2	183,756.7				51%
Do	121,068.6	123,820.2	66,037.4	137,578.0	114,643.2	458,572.8				56%
	83,537.4	85,435.9	45,565.8	94,928.8	79,103.8	316,415.2				69%
	37,531.2	38,384.3	20,471.6	42,649.2	35,539.4	142,157.6				31%

SPECIAL STATUS BOUNDARIES

HIN - ATE: ES	NODE ILE (000)	ATTRIBUTE FILE (000)	LINE FILE (000)	ATTRIBUTE FILE (000)	LYGON ILE (000)	ATTRIBUTE FILE	~~QUAD FILE~~	~~BOUNDARY FILE~~	SPECIAL E	
	3,397,834.0	3,475,057.5	1,853,364.0	3,861,175.0	970.1	3,880.3				
Do	1,495,042.0	1,529,025.3	815,480.2	1,698,917.0	426.8	1,707.3				44%
	732,573.0	749,222.4	399,585.3	832,469.3	209.2	836.6				49%
	762,474.0	779,802.9	415,894.9	866,447.7	217.6	870.7				51%
Do	1,902,787.0	1,946,032.2	1,037,883.8	2,162,258.0	543.3	2,173.0				56%
	1,312,923.1	1,342,762.2	716,139.8	1,491,958.0	374.8	1,499.3				69%
	589,863.9	603,270.0	321,744.0	670,300.0	168.4	673.6				31%

BOUNDARY

INTERFACED SYSTEMS AND FILES

ALMRS will have the responsibility to read and process various kinds of data files that either contain or relate to land and mineral data. ALMRS will be able to respond in different ways (interactive and/or batch) to various stimuli based on what is needed by various users.

The size of the currently identified ALMRS system files totals 563 billion characters, while those required from outside total 1,025 billion characters. The break out of file sizes are aggregated to the three kinds shown in the accompanying Table.

MODULE 1
VERIF. & CASE PROCESSING

VERIFICATION AND CASE PROCESSING

Figure 1 is the flow diagram for the verification and case processing module. Its main components consist of:

1. Converting manual data from internal or external users into an electronic format.

2. Early verification of data before serialization of the case.

3. Utilization of Alpha/Numeric components of the system initially to verify information, and then requesting the system to utilize graphics to portray complex applications or those requiring analytical portrayal. It is anticipated that between 50-70% of applications will be verified by A/N methods. This analysis requires the utilization of the ALMRS system and 15 interfaced systems.

4. Upon initial and final verification, an action tracking process is established, and the appropriate NEPA compliance is completed.

5. A final adjudication and verification is completed after a NEPA decision has been completed.

6. Authorization is completed. The majority of these forms and supplemental information will be automated.

7. Post-authorization work is completed.

MODULE 1

VERIFICATION AND CASE PROCESSING

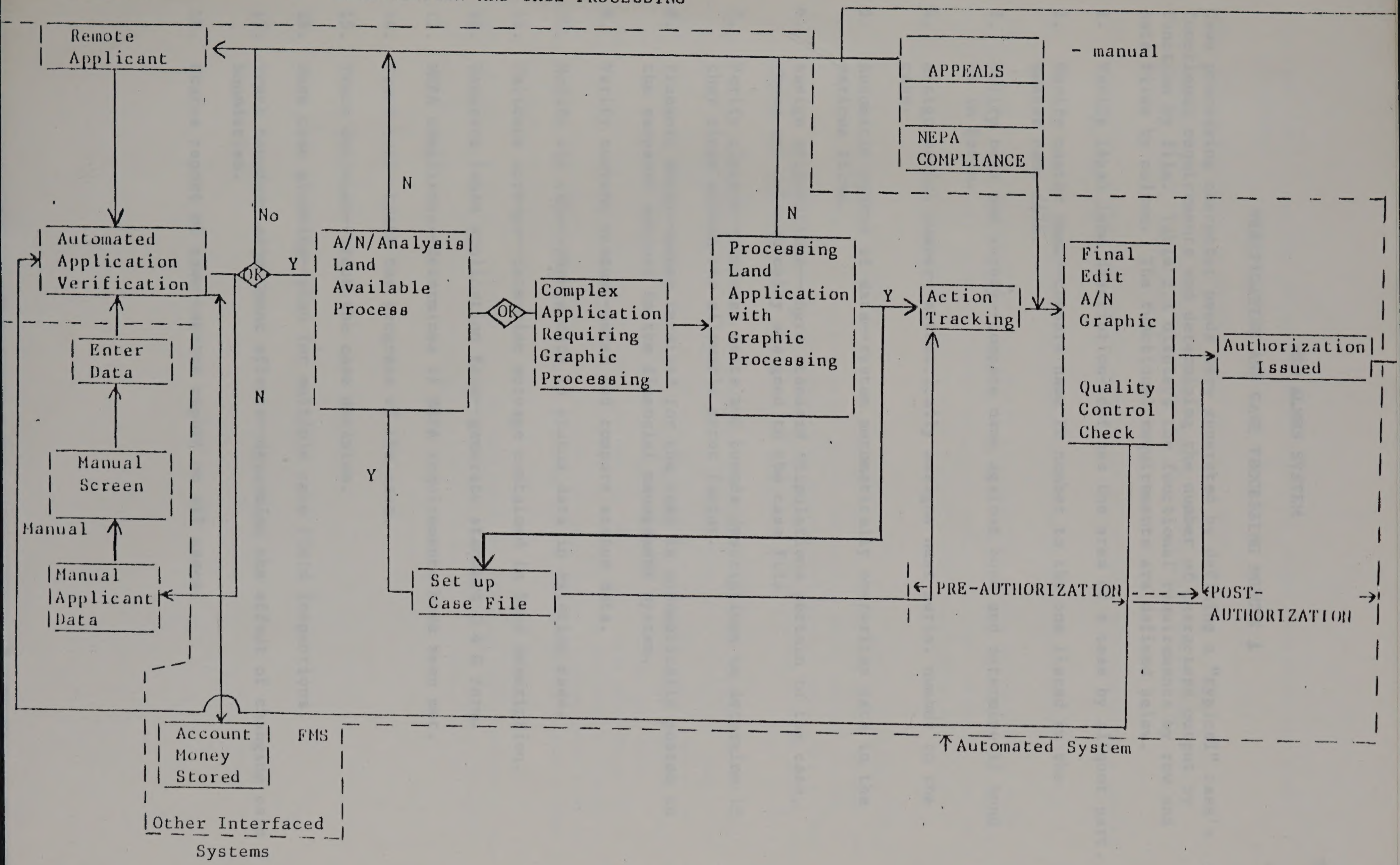

Figure 1

NEW ALMRS SYSTEM

VERIFICATION AND CASE PROCESSING MODULE 4

Case processing character needs were generated by defining a "typical" case's functional requirements and determining the number of characters output by function by file. Table 2.1 displays the functional requirements by row and data files by column. The functional requirements are defined below.

1. Verify legal land description--defines the area of a case by aliquot part.
2. Verify master name--compare name ID number to the one listed in the master name file.
3. Verify bond and surety--compare name against bond and determine if bond is in force.
4. Assign serial number--automatically assigns next serial number to the case.
5. Automatic update of data--system automatically overwrites data in the various files.
6. Assign stipulations--where standard stipulations pertain to the case, these are automatically assigned to the case file.
7. Verify closure--computes meets and bounds descriptions to determine if they close within the allowable error factor.
8. Transmit money--money received for the case is automatically posted to the suspense account in the financial management system.
9. Verify current status--enter and compare status data.
10. Modify old case--change data in status data in existing case.
11. Validate acreage--determine acreage contained in land description.
12. Generate lease application form--generate standard O & G form.
13. NEPA compliance--determines if NEPA requirements have been met.
14. Track case--track the progress of the case.
15. Track decision--track the case decision.
16. Work case planning--plan for multiple case field inspections.
17. Track boundary adjustment effects--determine the effect of changing case boundaries.
18. Status report of case--status report on all cases.

19. Identify areas available for SIMO--identify areas available for SIMO leasing.

20. Use authorization--generate use authorization.

21. Track diligence requirement--determine if diligent development requirements have been met.

22. Generate reports--automated generation of various letters/reports needed to process the case.

23. Acreage holding--determine number of acres held by individual.

Each case will add approximately 2,850 alphanumeric (A/N) characters to the status and legal land description data bases. Total input/output alphanumeric (A/N) characters for each case will be approximately 17,350. This figure does not relate to mining claims, which only generate 400 characters per case nongraphic requirements.

Table 2.2 displays the number of active nonmining claims cases by state. The first column indicates the present number of active cases per year; column two shows the total number of active cases as of February, 1985; column three displays the number of cases per year with an assumed growth rate; and column four shows the projected number of cases in 1992. New mining claims cases are assumed to be approximately 130,000 per year.

Table 2.3 indicates the total characters (excluding mining claims) by office. By multiplying the number of characters per case (Table 2.1) by the number of new cases (Table 2.2, column 3), we are able to project the total number of characters per year. Then using the percentage listed in column one, we are able to project the total characters of input/output by office per year. Total characters by office in 1992 (column 3, Table 2.3) were generated by multiplying the total number of characters by total cases (column 4, Table 2.2) by office percentage. Graphic characters (columns 4 and 5) were generated by assuming 357,000 graphic characters per case times the number of cases times the office percentage.

Mining claim figures, Table 2.4, were generated by assuming 400 characters per case times the number of cases. Total characters, Table 2.5, were generated by adding figures in Tables 2.3 and 2.4.

Case Processing Module

	Alpha/Numeric Data Base				Interface Files				Interface Systems		
Functional Requirements	Legal Land Description	Case Data (Status)	Stipulations	Reference File	Geographic Coordinate Data Base	Surety & Bond	Master Name	Data Dictionary	Financial Management	Minerals Systems	
Verify Legal Land Description	350	500	—	—	—	—	—	—	—	—	
Verify Master Name	—	10	—	—	—	—	200	—	—	—	
Verify Bond & Surety	—	—	—	—	—	300	—	—	—	—	
Assign Serial Number		10	—	—	—	—	—	—	—	—	
Automatic Update of Data	—	—	—	—							
Assign Stipulations	350	50	400	—	—	—	—	500	—	—	
Verify Closure	—	—	—	—	1,000	—	—	—	—	—	
Transmit money	—	20	—	—	—	—	—	—	50	—	
Verify Current Status		1900		—	—	—	—	—	—	—	
Modify Old Case	—	—	—	—	—	—	—	—	—	—	
Validate Acreage	—	500	—	—	—	—	—	—	—	—	
Generate Lease Application Form	—	10	—	—	—	—	—	50	—	—	
NEPA Compliance	—	10	—	50	—	—	—	—	—	—	
Track Case	—	100	—	—		—	—	300	—	100	
Track Decisions	—	40	—	—		—	—	300	—	—	
Case Work Planning	350	100	400	—	1,000	300	200	750	—	—	
Track Boundary Adjustment Effects	—	50	—	—	—	—	—	1,000	—	—	
Status Reports of Case	—	50	—	—	—	—	—	1,000	—	—	
Identify Areas Available for SIMO	—	50	—	—	—	—	—	1,000	—	—	
Track Use Authorizations	—	50	—	—	—	—	—	1,000	—	—	
Track Diligence Requirements	—	50	—	—	—	—	—	1,000	—	—	
Generate Reports	—	50	—	—	—	—	—	1,000	—	—	
Acreage Holdings	350	500	—	—	—	—	—	—	—	—	
Total	1,400	4050	800	50	2,000	600	400	7,900	50	100	17,350

Table 2.1

ACTIVE CASES (EXCLUDING MINING CLAIMS)

STATE	ACTIVE ONE YEAR	TOTAL CASES (1985)	ASSUMED GROWTH (27.2%)	TOTAL CASES (1992)
Arizona	405	5,383	520	9,000
California	1,131	11,143	1,440	21,200
Colorado	1,685	17,285	2,140	32,300
Idaho	720	9,868	920	16,300
Montana	3,075	30,223	3,910	57,600
New Mexico	3,120	48,118	3,970	75,900
Nevada	1,640	18,347	2,090	33,000
Oregon	1,603	16,888	2,040	31,200
Utah	1,864	29,674	2,370	46,300
Wyoming	4,613	55,985	5,880	97,100
Eastern States	1,392	14,454	1,770	26,800
TOTAL	21,248	257,368	27,050	446,700

Table 2.2

Case Processing

Office Per Year Total (1992)	%	A/N Characters Per Year	Total Characters 1992	Graphic requirement to Topo. module Chart Per Year X10^3	Total Characters
Arizona SO	36	3247,900	56214,000	66,830	
Arizona Strip DO	3	270,700	4,684,500	5,569	
Vermillon	2	180,400	3,123,000	3713	
Shivwits	2	180,400	3,123,000	3,713	
Phoenix DO	10	902,200	15,615,000	18,564	
Lower Gila	9	812,000	14,053,500	16,708	
Phoenix	11	922,400	17,176,500	20,420	
Kingman	11	922,400	17,176,500	20,420	
Yuma DO	2	180,400	3.123,000	3,713	
Yuma	2	180,400	3.123,000	3,713	
Havasu	2	180,400	3,123,000	3,713	
Safford	3	270,700	4,684,500	5,569	
San Simon	4	360,900	6,246,000	7,426	
Gila	3	270,700	4,684,500	5,569	
		9,022,000	156,150,000	185,640	

779,000 $\frac{ch}{day}$

TAble 2.3

Case Processing

		A/N		Graphic	
Office Per Year Total (1992)	%	Characters Per Year	Total Characters 1992	Chart Per Year $X10^3$	Total Characters
California SO	6	1,499000	22,069,200	30,845	
Bakersfield DO	6	1,499,000	22,069,200	30,845	
Bishop	6	1,499000	22,069,200	30,845	
Folsom	6	1,499,000	22,069,200	30,845	
Caliente	6	1,499,000	22,069,200	30,845	
Holister	4	999,400	14,712,800	20,563	
Susanville	3	749,500	11,034,600	15,422	
Eagle Lake	2	499700	7,356,400	10,282	
Suprize	2	499,700	7,356,400	10,282	
Alturas	2	499,700	7,356,400	10,282	
Ukiha	8	1,998,700	29,425,600	41,126	
Arcadia	4	999,400	14,712,800	20,563	
Redding	8	1,998,700	29,425,600	41,126	
Clear Lake	5	1,249,200	18,391,000	25,704	
California Desert	8	1,998,700	29,425,600	41,126	
Ridge Crest	6	1,499,000	22,069,200	30,845	
El Centro	6	1,499,000	22,069,200	30,845	
Barstow	4	999,400	14,712,800	20,563	
Indio	4	999,400	14,712,800	20,563	
Needles	4	999,400	14,712,800	20563	

24,984,000 367,820,000 ↓

514,080,000

2,156,000 / day

TAble 2.3

C~~o~~ase Processing

		A/N		Graphic	
Office Per Year Total (1992)	%	Characters Per Year	Total Characters 1992	Chart Per Year $\times 10^3$	Total Characters
Colorado SO	24	8,911,000	134,497,200	183,355	
Canon City DO	5	1,856,500	28,020,300	38,199	
Northeast	3	1,113,900	16,812,200	22,919	
San Lius	3	1,113,900	16,812,200	22,919	
Royal Gorge	4	1,485,200	22,416,200	30,559	
Craig DO	5	1,856,500	28,020,300	38,199	
Kremmling	2	742,600	11,208,100	15,280	
White River	7	2,599,000	39,228,400	53,479	
Little Snake	3	1,113,900	16,812,200	22,919	
Montrose DO	5	1,856,500	28,020,300	38,199	
Uncompahgre	9	3,341,609	50,436,450	68,758	
Gunnison	4	1,485,200	22,416,200	30,559	
San Jaun	8	2,970,300	44,832400	61,118	
Grand Junction	4	1,485,200	22,416,200	30,559	
Grand Junction	8	2,970,300	44,832,400	61,118	
Glenwood	6	2,227,700	33642,300	45,839	
		37,129,000	560,405,000	763,980	

$3{,}204{,}000\ \frac{ch}{day}$

Table 2.3

Case Processing

Office Per Year Total (1992)	%	A/N Characters Per Year	A/N Total Characters 1992	Graphic Chart Per Year $\times 10^3$	Graphic Total Characters
Idaho SO	34	5,427,100	96,153,700	111,670	
Boise DO	9	1436,600	25,452,500	29,560	
Cascade	2	319,200	5,656,100	6,569	
Owhyee	4	638,500	11,312,200	13,138	
Buineau	5	798,100	14,140,300	16,422	
Jaibridge	1	159,600	2,828,100	3,284	
Burley DO	2	319,200	5,656,100	6,569	
Deep Creek	2	319,200	5,656,100	6,569	
Snake River	2	319,200	5,656,100	6,569	
Coeur d Alene DO	2	319,200	5,656,100	6,569	
Emerald Empire	2	319,200	5,656,100	6,569	
Cottonwood	4	638,500	11,312,200	13,138	
Idaho Falls	6	957,700	16,968,300	19,706	
Pocotdello	7	1,117,300	19,796,400	22,991	
Big Butte	3	478,900	8,484,200	9,853	
Medicine Lodge	1	159,600	2,828,100	3,284	
Salmon DO	2	319,200	5,656,100	6569	
Lemki	2	319,200	5656,100	6569	
Challis Makay	2	319,200	5,656,100	6569	
Shoshone DO	2	319,200	5,656,100	6569	
Monument	1	159,600	2,828,100	3284	
Bennet Hills	4	638,500	11,312,200	13,138	
Soda Springs	1	159,600	2,828,100	3,284	
		15,962,000	282,805,000	328,440,	

977,600 ch/day

TAble 2.3

Case Processing

Office Per Year Total (1992)	%	A/N		Graphic	
		Characters Per Year	Total Characters 1992	Chart Per Year $X 10^3$	Total Characters
Montana SO	17	11,532,500	169,891,200	237,298	
Butte DO	6	4,070,300	59,961,600	83,752	
Headwater	5	3,391,900	49,968,000	69,794	
Dillion	5	3,391,900	49,968,000	69,794	
Garnet	4	2,713,500	39,974,400	55,835	
Miles City	7	4,748,700	69,955,200	97,711	
Big Dry	7	4,748,700	69,955,200	97,711	
Powder River	7	4,748,000	69,955,200	97,711	
South Dakota	4	2,713,500	39974,400	55,835	
Billings	5	3,391,900	49,968,000	69,794	
Dickinson	4	2,713,500	39,974,400	55,835	
Lewistor DO	6	4,070,300	59,961,600	83,752	
Judith	3	2,035,200	29,980,800	41,876	
Phillips	5	3,391,900	49,968,000	69,794	
Harve	3	2,035,200	29,980,800	41,876	
Valley	6	4,070,300	59,961,600	83,752	
Great Falls	6	4,070,300	59,961,600	83,752	
		67,838,500	999,360,000	1,395,870	

5,855,000 ch/day

CAse Processing

		A/N		Graphic	
Office Per Year Total (1992)	%	Characters Per Year	Total Characters 1992	Chart Per Year $X 10^3$	Total Characters
Nevada SO	27	9,790,600	154,588,500	201,455	
Battle Mt.	4	1,450,500	22,902,000	29,845	
Shoshone Eureka	2	725,200	11,451,000	14,923	
Tonopah	5	1,813,100	28,627,500	37,307	
Carson City	5	1,813,100	28,627,500	37,307	
Lahontan	5	1,813,100	28,627,500	37,307	
Walka	2	725,200	11,451,000	14,923	
Elko DO	3	1,087,800	17,176,500	22,384	
Elko RA	2	725,200	11,451,000	14,923	
Wells	2	725,200	11,451,000	14,923	
Ely	3	1,087,800	17,176,500	22,384	
Egan	2	725,200	11,451,000	14,923	
Schell	2	725,200	11,451,000	14,923	
Las Vegas	12	4,351,400	68,706,000	89,536	
Stateline Esmeralla	3	1,087,800	17,176,500	22,384	
Winnemucca	2	725,200	11,451,000	14,923	
Paradise	2	725,200	11,451,000	14,923	
Sonama	5	1,813,100	28,627,500	37,307	
Total		36,261,500	572,550,000	746,130	

3,130,000 ch/day

Table 2.3

Case Processing

Office Per Year Total (1992)	%	A/N		Graphic	
		Characters Per Year	Total Characters 1992	Chart Per Year $\times 10^3$	Total Characters
New Mexico SO	22	15,153,500	289,710,300	311,804	
Albuquerque	14	9,643,100	184,361,100	198,421	
Reo Puerco	6	4,132,700	79,011,900	85,037	
Farmington	11	7,576,700	144,855,200	155,902	
Taos	2	1,377,600	26,337,300	28,346	
Las Cruces DO	5	3,444,000	65,843,300	70,864	
Las Cruces Lords-Burg	3	2,066,400	39,505,900	42,519	
White Sands	2	1,377,600	26,337,300	28,346	
Socorro	2	1,377,600	26,337,300	28,346	
Tulsa DO	2	1,377,600	26,337,300	28,346	
Oklahoma	4	2,755,200	52,674,600	56,692	
Roswell DO	11	7,576,700	144,855,200	155,902	
Roswell RA	6	4,132,700	79,011,900	85,037	
Carlsbad	10	6,888,000	131,686,500	141,729	
		68,879,500	1,316,865,000	1,417,290	

5,945,000 ch/day

Table 2.3

Case Processing

		A/N		Graphic	
Office Per Year Total (1992)	%	Characters Per Year	Total Characters 1992	Chart Per Year X 10^3	Total Characters
Oregon SO	57	20,174,600	541,320,000	415,120	
Burns DO	1	353,900	5,413,200	7,283	
Three Rivers	1	353,900	5,413,200	7,283	
Andrews	1	353,900	5,413,200	7,283	
Coos Bay DO	1	353,900	5,413,200	7,283	
Myrttewood	1	353,900	5,413,200	7,283	
Tiogo	1	353,900	5,413,200	7,283	
Umpqua	1	353,900	5,413,200	7,283	
Eugene DO	1	353,900	5,413,200	7,283	
Noti	1	353,900	5,413,200	7,283	
Dorena	1	353,900	5,413,200	7,283	
Mohawk	1	353,900	5,413,200	7,283	
Lorane	1	353,900	5,413,200	7,283	
Lakeview DO	1	353,900	5,413,200	7,283	
Kalamath Falls	1	353,900	5,413,200	7,283	
Warner Lake	1	353,900	5,413,200	7,283	
High Desert	1	353,900	5,413,200	7,283	
Medford DO	1	353,900	5,413,200	7,283	
Klamath	1	353,900	5,413,200	7,283	
Butte Falls	1	353,900	5,413,200	7,283	
Jacksonville	1	353,900	5,413,200	7,283	
Grants Pass	1	353,900	5,413,200	7,283	
Glendale	1	353,900	5,413,200	7,283	
Prineville DO	1	353,900	5,413,200	7,283	

Table 2.3

Oregon (Continued)

Office Per Year Total (1992)	%	A/N Characters Per Year	A/N Total Characters 1992	Graphic Chart Per Year X103	Graphic Total Characters
Central Oregon	1	353,900	5,413,200	7,283	
Deschute	1	353,900	5,413,200	7,283	
Roseburg DO	1	353,900	5,413,200	7,283	
N. Umpqua	1	353,900	5,413,200	7,283	
S. Umpqua	1	353,900	5,413,200	7,283	
Dillard	1	353,900	5,413,200	7,283	
Drain	1	353,900	5,413,200	7,283	
Salem DO	1	353,900	5,413,200	7,283	
Santeam	1	353,900	5,413,200	7,283	
Alsea	1	353,900	5,413,200	7,283	
Yarnhill	1	353,900	5,413,200	7,283	
Clarkramas	1	353,900	5,413,200	7,283	
Tillamook	1	353,900	5,413,200	7,283	
Spokane DO	1	353,900	5,413,200	7,283	
Wenatchee	1	353,900	5,413,200	7,283	
Border	1	353,900	5,413,200	7,283	
Vale	1	353,900	5,413,200	7,283	
S. Walkuee	1	353,900	5,413,200	7,283	
Baker	1	353,900	5,413,200	7,283	
Jon Day	1	353,900	5,413,200	7,283	
Total		35,394,000	541,320,000	728,280	

3,055,000 ch/day

Case Processing

		A/N		Graphic	
Office Per Year Total (1992)	%	Characters Per Year	Total Characters 1992	Chart Per Year X 10^3	Total Characters
Utah SO	27	11,102,300	216,892,400	228,444	
Salt Lake DO	1	411,200	8,033,000	8,461	
Bear River	3	1,233,600	24,099,200	25,383	
Pony Express	1	411,200	8,033,000	8,461	
Ceder City DO	3	1,233,600	24,099,200	25,383	
Dixie	6	2,467,200	48,198,300	50,765	
Kanab	3	1,233,600	24,099,200	25,383	
Escalante	1	411,200	8,033,000	8,461	
Beaver River	3	1,233,600	24,099,200	25,383	
Richfield DO	3	1,233,600	24,099,200	25,383	
Warm Spring/ Calente	2	822,400	16,066,100	16,922	
House Range	1	411,200	8,033,000	8,461	
Henry Mt	1	411,200	8,033,000	8,461	
Sevicer River	2	822,400	16,066,100	16,922	
Moab DO	7	2,878,400	56,231,300	59,226	
San Juan	6	2,467,200	48,198,300	50,765	
Grand	6	2,467,200	48,198,300	50,765	
Price River	4	1,644,800	32,132,200	33,844	
San Rafael	6	2,467,200	48,198,300	50,765	
Vernal DO	4	1,644,800	32,132,200	33,844	
Diamond	4	1,644,800	32,132,200	33,844	
Book Cliff	6	2,467,200	48,198,300	50,765	
		41,119,500	803,305,000	846,090	

3,549,000 ch/day

TAble 2.3

Case Processing

Office Per Year Total (1992)	%	A/N Characters Per Year	A/N Total Characters 1992	Graphic Chart Per Year (in 1000s)	Graphic Total Characters
Wyoming SO	9	9,181,600	151,621,700	188,924	
Casper	4	4,080,700	67,387,400	83,966	
Platte River	9	9,181,600	151,621,700	188,924	
Buffalo	9	9,181,600	151,621,700	188,924	
Newcastle	9	9,181,600	151,621,700	188,924	
Rawlins DO	4	4,080,700	67,387,400	83,966	
Divide	4	4,080,700	67,387,400	83,966	
Medicine Bow	2	2,041 600	33,693,700	41,983	
Lander	9	9,181,600	151,621,700	188,924	
Rock Springs DO	4	4,080,700	67,387,400	83,966	
Big Sandy	5	5,104,100	84,234,300	104,958	
Salt Wells	9	9,181,600	151,621,700	188,924	
Kemmer	9	9,181,600	151,621,700	188,924	
Pinedale	5	5,104,100	84,234,300	104,958	
Worland	1	102080	16,846,900	20,992	
Grass Creek	2	2041 600	33,693,700	41,983	
Washakie	2	2041 600	33,693,700	41,983	
Cody	4	4,080,700	67,387,400	83,966	
		102,018,000	1,684,685,000	2,099,160	

8,805,000 ch/day

Table 2.3

Case Processing

		A/N		Graphic	
Office Per Year Total (1992)	%	Characters Per Year	Total Characters 1992	Chart Per Year X10^3	Total Characters
ESO SO	64	19,654,100	297,587,200	404,410	
Jackson	18	5,527,700	83,696,400	113,740	
Milwaukee	18	5,527,700	83,696,400	113,740	
Total		30,709,500	464,980,000	631,890	

2,650,000 $\frac{\text{characters}}{\text{day}}$

Table 2.3

MIning Claims

		A/N		
Office Per Year Total (1992)	%	Characters Per Year	Total Characters 1985	Total Characters 1992
Arizona SO	36	2,246,400	31,104,000	46,828,800
Arizona Strip DO	3	187,200	2,592,000	3,902,400
Vermillon	2	124,800	1,728,000	2,601,600
Shivwits	2	124,800	1,728,000	2,601,600
Phoenix DO	10	624,000	8,640,000	13,008,000
Lower Gila	9	561,600	7,776,000	11,707,200
Phoenix	11	686,400	9,504,000	14,308,800
Kingman	11	686,400	9,504,000	14,308,800
Yuma DO	2	124,800	1728,000	2,601,600
Yuma	2	124,800	1,728,000	2,601,600
Havasu	2	124,800	1,728,000	2,601,600
Safford	3	187,200	2,592,000	3,902,400
San Simon	4	249,600	3,456,000	5,203,200
Gila	3	187,200	2,592,000	3,902,400
		6,240,000	86,400,000	127,478,400

TAble 2.4

Mining Claims

Office Per Year Total (1992)	%	A/N Characters Per Year	Total Characters 1985	Total Characters 1992
California SO	6	249,600	3,774,000	5,521,200
Bakersfield DO	6	249,600	3,774,000	5,521,200
Bishop	6	249,600	3,774,000	5,521,200
Folsom	6	249,600	3,774,000	5,521,200
Caliente	6	249,600	3,774,000	5,521,200
Holister	4	166,400	2,516,000	3,680,800
Susanville	3	124,800	1,887,000	2,760,600
Eagle Lake	2	83,200	1,258,000	1,840,400
Suprize	2	83,200	1,258,000	1,840,400
Alturas	2	83,200	1,258,000	1,840,400
Ukiha	8	332,600	5,032,000	7,360,200
Arcadia	4	166,400	2,516,000	3,680,800
Redding	8	332,600	5,032,000	7,360,200
Clear Lake	5	208,000	3,145,000	4,601,000
California Desert	8	332,600	5,032,000	7,360,200
Ridge Crest	6	249,600	3,774,000	5,521,200
El Centro	6	249,600	3,774,000	5,521,200
Barstow	4	166,400	2,516,000	3,680,800
Indio	4	166,400	2,516,000	3,680,800
Needles	4	166,400	2,516,000	3,680,800
		4,160,000	62,900,000	92,020,000

Table 2.4

Mining Claims
A/N

Office Per Year Total (1992)	%	Characters Per Year	Total Characters 1985	Total Characters 1992
Colorado SO	24	1,372,800	19,896,000	29,505,600
Canon City DO	5	286,000	4,145,000	6,147,000
Northeast	3	171,600	2,487,000	3,688,200
San Lius	3	171,600	2,487,000	3,688,200
Royal Gorge	4	228,800	3,316,000	4,917,600
Craig DO	5	286,000	4,145,000	6,147,000
Kremmling	2	114,400	1,658,000	2,458,800
White River	7	400,400	5,803,000	8,605,800
Little Snake	3	171,600	2,487,000	3,688,200
Montrose DO	5	286,000	4,145,000	6,147,000
Uncompahgre	9	514,800	7,461,000	11,064,600
Gunnison	4	228,800	3,316,000	4,917,600
San Jaun	8	457,600	6,632,000	9,835,200
Grand Junction	4	228,800	3,316,000	4,917,600
Grand Junction	8	457,600	6,632,000	9,835,200
Glenwood	6	343,200	4,974,000	7,376,400
		5,720,000	82,900,000	122,940,000

TAble 2.4

Mining Claims

		A/N		
Office Per Year Total (1992)	%	Characters Per Year	Total Characters 1985	Total Characters 1992
Idaho SO	34	884,000	13,117,200	19,305,200
Boise DO	9	234,000	3,472,200	5,110,200
Cascade	2	52,000	771,600	1,135,600
Owhyee	4	104,000	1,543,200	2,271,200
Buineau	5	130,000	1,929,000	2,839,000
Jaibridge	1	26,000	385,800	567,800
Burley DO	2	52,000	771,600	1,135,600
Deep Creek	2	52,000	771,600	1,135,600
Snake River	2	52,000	771,600	1,135,600
Coeur d Alene DO	2	52,000	771,600	1,135,600
Emerald Empire	2	52,000	771,600	1,135,600
Cottonwood	4	104,000	1,543,200	2,271,200
Idaho Falls	6	156,000	2,314,800	3,406,800
Pocotdello	7	182,000	2,700,600	3,974,600
Big Butte	3	78,000	1,157,400	1,703,400
Medicine Lodge	1	26,000	385,800	567,800
Salmon DO	2	52,000	771,600	1,135,600
Lemki	2	52,000	771,600	1,135,600
Challis Makay	2	52,000	771,600	1,135,600
Shoshone DO	2	52,000	771,600	1,135,600
Monument	1	26,000	385,800	567,800
Bennet Hills	4	104,000	1,543,200	2,271,200
Soda Springs	1	26,000	385,800	567,800
Total		2,600,000	38,580,000	56,780,000

TAble 2.4

Mining Claims

		A/N		
Office Per Year Total (1992)	%	Characters Per Year	Total Characters 1985	Total Characters 1992
ESO SO	64	332,800	550,400	2,880,000
Jackson	18	93,600	154,800	810,000
Milwaukee	18	93,600	154,800	810,000
		520,000	860,000	4,500,000

Table 2.4

Mining Claims

Office Per Year Total (1992)	%	A/N Characters Per Year	Total Characters 1985	Total 1992
Montana SO	17	530,400	7,507,200	11,220,000
Butte DO	6	187,200	2,649,600	3,960,000
Headwater	5	156,000	2,208,000	3,300,000
Dillion	5	156,000	2,208,800	3,300,000
Garnet	4	124,800	1,766,400	2,640,000
Miles City	7	218,400	3,091,200	4,620,000
Big Dry	7	218,400	3,091,200	4,620,000
Powder River	7	218,400	3,091,200	4,620,000
South Dakota	4	124,800	1,766,400	2,640,000
Billings	5	156,000	2,208,800	3,300,000
Dickinson	4	124,800	1,766,400	2,640,000
Lewistor DO	6	187,200	2,649,600	3,960,000
Judith	3	93,600	1,324,800	1,980,000
Phillips	5	156,000	2,208,800	3,300,000
Harve	3	93,600	1,324,800	1,980,000
Valley	6	187,200	2,649,600	3,960,000
Great Falls	6	187,200	2,649,600	3,960,000
		3,120,000	44,160,000	66,000,000

Table 2.4

Mining Claims

Office Per Year Total (1992)	%	A/N Characters Per Year	A/N Total Characters 1985	Total Characters 1992
Nevada SO	27	2,527,200	34,473,600	52,164,000
Battle Mt.	4	374,400	5,107,200	7,728,000
Shoshone Eureka	2	187,200	2,553,600	3,864,000
Tonopah	5	468,000	6,384,000	9,660,000
Carson City	5	468,000	6,384,000	9,660,000
Lahontan	5	468,000	6,384,000	9,660,000
Walka	2	187,200	2,553,600	3,864,000
Elko DO	3	280,800	3,830,400	5,796,000
Elko RA	2	187,200	2,553,600	3,864,000
Wells	2	187,200	2,553,600	3,864,000
Ely	3	280,800	3,830,400	5,796,000
Egan	2	187,200	2,553,600	3,864,000
Schell	2	187,200	2,553,600	3,864,000
Las Vegas	12	1,123,200	15,321,600	23,184,000
Stateline Esmeralla	3	280,800	3,830,400	5,796,000
Winnemucca	2	187,200	2,553,600	3,864,000
Paradise	2	187,200	2,553,600	3,864,000
Sonama	5	468,200	6,384,000	9,660,000
		9,360,000	127,680,000	193,200,000

Table 2.4

Mining Claims

		A/N			
Office Per Year Total (1992)	%	Characters Per Year	Total Characters 1985	Total Characters 1992	
New Mexico SO	22	800,800	11,466,400	17,072,000	
Albuquerque	14	509,600	7296800	10,864,000	
Reo Puerco	6	218,400	3127200	4656000	
Farmington	11	400,400	5 733 200	8,536,000	
Taos	2	72,800	1,042,400	1552000	
Las Cruces DO	5	182,000	2,606,000	3880,000	
Las Cruces Lords-Burg	3	109,200	1,563,600	2328000	
White Sands	2	72,800	1,042,400	1552000	
Socorro	2	72,800	1,042,400	1552000	
Tulsa DO	2	72,800	1,042,400	1552000	
Oklahoma	4	145,600	2,084 800	3,104,000	
Roswell DO	11	400,400	5 733 200	8536000	
Roswell RA	6	218,400	3,127,200	4656,000	
Carlsbad	10	364,000	5212,000	7,760,000	
		3,640,000	52,120,000	77,600,000	

Table 2.4

Mining Claims

Office Per Year Total (1992)	%	A/N Characters Per Year	Total Characters 1985	Total Characters 1992
Oregon SO	57	1,185600	17601,600	25,900,800
Burns DO	0	20,800	308 800	454 400
Three Rivers	1	20,800	308 800	454 400
Andrews	1	20,800	308 800	454 400
Coos Bay DO	0	20,800	308 800	454 400
Myrttewood	1	20,800	308 800	454 400
Tiogo	1	20,800	308 800	454 400
Umpqua	1	20,800	308 800	454 400
Eugene DO	0	20,800	308 800	454 400
Noti	1	20,800	308 800	454 400
Dorena	1	20,800	308 800	454 400
Mohawk	1	20,800	308 800	454 400
Lorane	1	20 800	308 800	454 400
Lakeview DO	0	20 800	308 800	454 400
Kalamath Falls	1	20 800	308 800	454 400
Warner Lake	1	20 800	308 800	454 400
High Desert	1	20 800	308 800	454 400
Medford DO	0	20 800	308 800	454 400
Klamath	1	20 800	308 800	454 400
Butte Falls	1	20 800	308 800	454 400
Jacksonville	1	20 800	308 800	454 400
Grants Pass	1	20 800	308 800	454 400
Glendale	1	20 800	308 800	454 400
Prineville DO	0	20 800	308 800	454 400

Table 2.4

Mining Claims

Oregon (Continued)

Office Per Year Total (1992)	%	A/N Characters Per Year	Total Characters 1985	Total Characters 1992
Central Oregon	1	20 800	308 800	454 400
Deschute	1	20 800	308 800	454 400
Roseburg DO	1	20 800	308 800	454 400
N. Umpqua	1	20 800	308 800	454 400
S. Umpqua	1	20 800	308 800	454 400
Dillard	1	20 800	308 800	454 400
Drain	1	20 800	308 800	454 400
Salem DO	1	20 800	308 800	454 400
Santeam	1	20 800	308 800	454 400
Alsea	1	20 800	308 800	454 400
Yarnhill	1	20 800	308 800	454 400
Clarkramas	1	20 800	308 800	454 400
Tillamook	1	20 800	308 800	454 400
Spokane DO	1	20 800	308 800	454 400
Wenatchee	1	20 800	308 800	454 400
Border	1	20 800	308 800	454 400
Vale	1	20 800	308 800	454 400
S. Walkuee	1	20 800	308 800	454 400
Baker	1	20 800	308 800	454 400
Jon Day	1	20 800	308 800	454 400
		2,080,000	30,880,000	45,400,000

Mining Claims

Office Per Year Total (1992)	%	A/N Characters Per Year	Total Characters 1985	Total Characters 1992
Utah SO	27	2,246,400	30 202 200	45 927 000
Salt Lake DO	1	83,200	1 118 600	1701 000
Bear River	3	249,600	3 355 800	5 103 000
Pony Express	1	83,200	1 118 600	1701 000
Ceder City DO	3	249,600	3 355 800	5103 000
Dixie	6	499,200	6 711 600	10 206 000
Kanab	3	249,600	3 355 800	5 103 000
Escalante	1	83,200	1 118 600	1701 000
Beaver River	3	249,600	3 355 800	5 103 000
Richfield DO	3	249,600	3 355 800	5 103 000
Warm Spring/ Calente	2	166,400	2237 200	3402 000
House Range	1	83,200	1 118 600	1701 000
Henry Mt	1	83,200	1 118 600	1701 000
Sevicer River	2	166,400	2237200	3 402 000
Moab DO	7	582,400	7 830 200	11 907 000
San Juan	6	499,200	6711 600	10 206 000
Grand	6	499,200	6711 600	10 206 000
Price River	4	332,800	4,474 400	6 804 000
San Rafael	6	499,200	6 711 600	10 206 000
Vernal DO	4	332,800	4474 400	6804 000
Diamond	4	332,800	4474 400	6804000
Book Cliff	6	499,200	6711600	10 206 000
		8,320,000	111,860,000	170,100,000

Table 2.4

Mining Claims

Office Per Year Total (1992)	%	A/N Characters Per Year	Total Characters 1985	Total Characters 1992
Wyoming SO	9	561,600	8 190 000	12,121,200
Casper	4	249 600	3 640 000	5,387,200
Platte River	9	561,600	8 190 000	12,121,200
Buffalo	9	561,600	8 190 000	12,121,200
Newcastle	9	561,600	8 190 000	12,121,200
Rawlins DO	4	249 600	3 640 000	5,387,200
Divide	4	249 600	3 640 000	5,387,200
Medicine Bow	2	124 800	1 820 000	2,693,600
Lander	9	561 600	8 190 000	12,121,200
Rock Springs DO	4	249 600	3 640 000	5,387,200
Big Sandy	5	312 000	4 550 000	6 734 000
Salt Wells	9	561 600	8 190 000	12,121,200
Kemmer	9	561 600	8 190 000	12,121,200
Pinedale	5	312 000	4 550 000	6 734 000
Worland	1	62 400	910 000	1,346,800
Grass Creek	2	124 800	1 820 000	2,693,600
Washakie	2	124 800	1 820 000	2,693 600
Cody	4	249,600	3 640 000	5,387,200
		6,240,000	91,000,000	134,680,000

TAble 2.4

Total Characters

Office Per Year Total (1992)	%	A/N		Graphic	
		Characters Per Year	Total Characters 1992	Chart Per Year	Total Characters
Arizona SO	36	5,494,300	103,043,000	SAme	as
Arizona Strip DO	3	457,900	8,587,000	Table	2.3
Vermillon	2	305,200	5,725,000		
Shivwits	2	305,200	5,725,000		
Phoenix DO	10	1,526,200	16,916,000		
Lower Gila	9	1,373,600	25,761,000		
Phoenix	11	1,608,800	31,485,000		
Kingman	11	1,608,800	31,485,000		
Yuma DO	2	305,200	5,725,000		
Yuma	2	305,200	5,725,000		
Havasu	2	305,200	5,725,000		
Safford	3	457,900	8,587,000		
San Simon	4	610,500	11,449,000		
Gila	3	457,900	8,587,000		
		15,262,000	283,628,000		

Table 2.5

Total Characters

Office Per Year Total (1992)	%	A/N		Graphic	
		Characters Per Year	Total Characters 1992	Chart Per Year	Total Characters
California SO	6	1,748,600	27,590,000	Same as	
Bakersfield DO	6	1,748,600	27,590,000	Table	2.3
Bishop	6	1,748,600	27,590,000		
Folsom	6	1,748,600	27,590,000		
Caliente	6	1,748,600	27,590,000		
Holister	4	1,165,800	18,394,000		
Susanville	3	874,300	13,795,000		
Eagle Lake	2	582,900	9,197,000		
Suprize	2	582,900	9,197,000		
Alturas	2	582,900	9,197,000		
Ukiha	8	2,331,300	36,786,000		
Arcadia	4	1,165,800	18,394,000		
Redding	8	2,331,300	36,786,000		
Clear Lake	5	1,457,200	22,992,000		
California Desert	8	2,331,300	36,786,000		
Ridge Crest	6	1,748,600	27,590,000		
El Centro	6	1,748,600	27,590,000		
Barstow	4	1,165,800	18,394,000		
Indio	4	1,165,800	18,394,000		
Needles	4	1,165,800	18,394,000		
		29,144,000	459,840,000		

Table 2.5

Total Characters

Office Per Year Total (1992)	%	A/N		Graphic	
		Characters Per Year	Total Characters 1992	Chart Per Year	Total Characters
Colorado SO	24	10,283,800	164,003,000	Same as	
Canon City DO	5	2,142,500	34,167,000	Table 2.3	
Northeast	3	1,285,500	20,500,000		
San Lius	3	1,285,500	20,500,000		
Royal Gorge	4	1,714,000	27,334,000		
Craig DO	5	2,142,500	34,167,000		
Kremmling	2	857,000	13,667,000		
White River	7	2,999,400	47,834,000		
Little Snake	3	1,285,500	20,500,000		
Montrose DO	5	2,142,500	34,167,000		
Uncompahgre	9	3,856,400	56,583,000		
Gunnison	4	1,714,000	27,334,000		
San Jaun	8	3,427,900	54,668,000		
Grand Junction	4	1,714,000	27,334,000		
Grand Junction	8	3,427,900	54,668,000		
Glenwood	6	2,570,900	41,019,000		
		42,849,000	683,345,000		

Table 2.5

Total Characters

Office Per Year Total (1992)	%	A/N Characters Per Year	A/N Total Characters 1992	Graphic Chart Per Year	Graphic Total Characters
Idaho SO	34	6,311,100	115,459,000	Same as	
Boise DO	9	1,670,600	30,563,000	Table 2.3	
Cascade	2	371,200	6,792,000		
Owhyee	4	742,500	13,583,400		
Buineau	5	928,100	16,979,000		
Jaibridge	1	185,600	3,397,000		
Burley DO	2	371,200	6,792,000		
Deep Creek	2	371,200	6,792,000		
Snake River	2	371,200	6,792,000		
Coeur d Alene DO	2	371,200	6,792,000		
Emerald Empire	2	371,200	6,792,000		
Cottonwood	4	742,500	13,583,400		
Idaho Falls	6	1,113,700	20,375,000		
Pocotdello	7	1,299,300	23,771,000		
Big Butte	3	556,900	10,188,000		
Medicine Lodge	1	185,600	3,397,000		
Salmon DO	2	371,200	6,792,000		
Lemki	2	371,200	6,792,000		
Challis Makay	2	371,200	6,792,000		
Shoshone DO	2	371,200	6,792,000		
Monument	1	185,600	3,397,000		
Bennet Hills	4	742,500	13,583,400		
Soda Springs	1	185,600	3,397,000		
		18,562,000	339,585,000		

TAble 2.5

Total Characters

Office Per Year Total (1992)	%	A/N		Graphic	
		Characters Per Year	Total Characters 1992	Chart Per Year	Total Characters
ESO SO	64	19,986,900	300,467,000	Same as	
Jackson	18	5,621,300	84,506,000	Table 2.3	
Milwaukee	18	5,621,300	84,506,000		
		31,229,500	469,480,000		

Table 2.5

Total Characters

Office Per Year Total (1992)	%	A/N		Graphic	
		Characters Per Year	Total Characters 1992	Chart Per Year	Total Characters
Montana SO	17	12,062,900	174,398,000	Same as	
Butte DO	6	4,257,500	62,611,000	Table 2.3	
Headwater	5	3,547,900	52,176,000		
Dillion	5	3,547,900	52,176,000		
Garnet	4	2,838,300	42,598,000		
Miles City	7	4,967,100	74,575,200		
Big Dry	7	4,967,100	74,575,200		
Powder River	7	4,967,100	74,575,200		
South Dakota	4	2,838,300	42,598,000		
Billings	5	3,547,900	52,176,000		
Dickinson	4	2,838,300	42,598,000		
Lewistor DO	6	4,257,500	62,611,000		
Judith	3	2,128,800	31,961,000		
Phillips	5	3,547,900	52,176,000		
Harve	3	2,128,800	31,961,000		
Valley	6	4,257,500	62,611,000		
Great Falls	6	4,257,500	62,611,000		
		70,959,000	1,065,360,000		

Table 2.5

Total Characters

		A/N		Graphic	
Office Per Year Total (1992)	%	Characters Per Year	Total Characters 1992	Chart Per Year	Total Characters
Nevada SO	27	12,317,800	206,753,000	Same as	
Battle Mt.	4	1,824,900	30,630,000	Table 2.3	
Shoshone Eureka	2	912,400	15,315,000		
Tonopah	5	2,281,000	38,288,000		
Carson City	5	2,281,000	38,288,000		
Lahontan	5	2,281,000	38,288,000		
Walka	2	912,400	15,315,000		
Elko DO	3	1,368,600	22,973,000		
Elko RA	2	912,400	15,315,000		
Wells	2	912,400	15,315,000		
Ely	3	1,368,600	22,973,000		
Egan	2	912,400	15,315,000		
Schell	2	912,400	15,315,000		
Las Vegas	12	5,474,600	91,890,000		
Stateline Esmeralla	3	1368600	22,973,000		
Winnemucca	2	912,400	15,315,000		
Paradise	2	912,400	15,315,000		
Sonama	5	2,281,000	38,288,000		
		45,621,500	700,230,000		

Table 2.5

Total Characters

Office Per Year Total (1992)	%	A/N		Graphic	
		Characters Per Year	Total Characters 1992	Chart Per Year	Total Characters
New Mexico SO	22	15,954,300	306,782,000	Same	as
Albuquerque	14	10,152,700	195,225,000	Table	2.3
Reo Puerco	6	4,351,100	83,668,000		
Farmington	11	7,977,100	153,391,000		
Taos	2	1,450,400	27,859,000		
Las Cruces DO	5	3,626,000	27,859,000		
Las Cruces Lords-Burg	3	2,175,600	41,834,000		
White Sands	2	1450,400	27,859,000		
Socorro	2	1,450,400	27,859,000		
Tulsa DO	2	1,450,400	27,859,000		
Oklahoma	4	2,900,800	55,779,000		
Roswell DO	11	7,977,100	153,391,000		
Roswell RA	6	4,351,100	83,668,000		
Carlsbad	10	7,252,000	139,446,000		
		72,519,500	1,394,465,000		

Table 2.5

Total Characters

		A/N		Graphic	
Office Per Year Total (1992)	%	Characters Per Year	Total Characters 1992	Chart Per Year	Total Characters
Oregon SO	57	21 360 200	567 220 800	Same as Table 2.3	
Burns DO	0	374 700	5867600		
Three Rivers	1	374 700	5 867 600		
Andrews	1	374 700	5 867600		
Coos Bay DO	0	374700	5 867 600		
Myrttewood	1	374700	5 867 600		
Tiogo	1	374 700	5 867 600		
Umpqua	1	374 700	5 867 600		
Eugene DO	0	374 700	5 867600		
Noti	1	374 700	5 867 600		
Dorena	1	374 700	5 867 600		
Mohawk	1	374 700	5 867 600		
Lorane	1	374 700	5 867 600		
Lakeview DO	0	374 700	5 867 600		
Kalamath Falls	1	374 700	5 867 600		
Warner Lake	1	374 700	5 867 600		
High Desert	1	374 700	5 867 600		
Medford DO	0	374 700	5 867 600		
Klamath	1	374 700	5 867 600		
Butte Falls	1	374 700	5 867 600		
Jacksonville	1	374 700	5 867 600		
Grants Pass	1	374 700	5 867 600		
Glendale	1	374 700	5 867 600		
Prineville DO	0	374 700	5 867 600		

Oregon (Continued)

Office Per Year Total (1992)	%	A/N Characters Per Year	A/N Total Characters 1992	Graphic Chart Per Year	Graphic Total Characters
Central Oregon	1	374 700	5 867 600		
Deschute	1	374 700	5 867 600	Same	
Roseburg DO	0	374 700	5 867 600	as	Table 2.3
N. Umpqua	1	374 700	5 867 600		
S. Umpqua	1	374 700	5 867 600		
Dillard	1	374 700	5 867 600		
Drain	1	374 700	5 867 600		
Salem DO	0	374 700	5 867 600		
Santeam	1	374 700	5 867 600		
Alsea	1	374 700	5 867 600		
Yarnhill	1	274 700	5 867 600		
Clarkramas	1	374 700	5 867 600		
Tillamook	1	374 700	5 867 600		
Spokane DO	0	374 700	5 867 600		
Wenatchee	1	374 700	5 867 600		
Border	1	374 700	5 867 600		
Vale	0	374 700	5 867 600		
S. Walkuee	1	374 700	5 867 600		
Baker	1	374 700	5 867 600		
Jon Day	1	374 700	5 867 600		
		37,474,000	586,720,000		

Total Characters

Office Per Year Total (1992)	%	A/N Characters Per Year	A/N Total Characters 1992	Graphic Chart Per Year	Graphic Total Characters
Utah SO	27	13,348,700	262,819,400	Same as table 2.3	
Salt Lake DO	1	494 400	9,734000		
Bear River	3	1 483 200	29 202 200		
Pony Express	1	494 400	9 734 000		
Ceder City DO	3	1 483 200	29 202 200		
Dixie	6	2 966 400	58 404 300		
Kanab	3	1 483 200	29 202 200		
Escalante	1	494 400	9 734 000		
Beaver River	3	1 483 200	29 202 200		
Richfield DO	3	1 483 200	29 202 200		
Warm Spring/ Calente	2	988 800	19 468 100		
House Range	1	494 400	9734 000		
Henry Mt	1	494 400	9 734 000		
Sevicer River	2	988 800	19 468 100		
Moab DO	7	3 460 800	68 138 300		
San Juan	6	2 966 400	58 404 300		
Grand	6	2966 400	58 404 300		
Price River	4	1 977 600	38 936 200		
San Rafael	6	2 966 400	58 404 300		
Vernal DO	4	1 977 600	38 936 200		
Diamond	4	1977 600	38 936 200		
Book Cliff	6	2966400	58 404 300		
		49,439,500	973,405,000		

Table 2.5

Total Characters

		A/N		Graphic	
Office Per Year Total (1992)	%	Characters Per Year	Total Characters 1992	Chart Per Year	Total Characters
Wyoming SO	9	9,743,200	163742900		
Casper	4	4,330,300	72 774 600	Same	
Platte River	9	9 743 200	163 742 900	as	Table 2.3
Buffalo	9	9 743 200	163 742 900		
Newcastle	9	9 743 200	163 742900		
Rawlins DO	4	4,330,300	72 774 600		
Divide	4	4,330,300	72774 600		
Medicine Bow	2	2,166 400	36 387 300		
Lander	9	9 743 200	163 742900		
Rock Springs DO	4	4, 330, 300	72 774 600		
Big Sandy	5	5, 416, 100	90968 300		
Salt Wells	9	9 743 200	163 742900		
Kemmer	9	9 743 200	163 742900		
Pinedale	5	5 416 100	90 968 300		
Worland	1	164 480	1,448,880		
Grass Creek	2	2 166 400	36387 300		
Washakie	2	2 166 400	36387300		
Cody	4	4 330 300	72774 600		
		108,321,000	136,364,685,000		

BLM Grand Total 521,381,000 7,092,423,000

Table 2.5

MINING CLAIMS 1992 - PROPOSED

STATE	CASE TYPE 8
ARIZONA	300
CALIFORNIA	200
COLORADO	275
IDAHO	125
MONTANA	150
NEW MEXICO	175
NEVADA	350
OREGON	100
UTAH	300
WYOMING	300
EASTERN STATES	10

MODULE 2
QUERY

III. Module 2 - Query

The basic estimate for alphanumeric output was developed in the User Requirement Document (URD), Section 7, Outputs. The pages of output are estimated by individual output by user and type of office. These are summarized in URD, Section 7, Table 7, on pages 7-49. This estimate is for the time when ALMRS would be implemented in all states.

The current analysis adjusts (Table 1) the URD (1983) estimates in two ways. The first adjustment is the use of four factors to develop an index by which the aggregate output is estimated for five (5) years after implementation in all states instead of the year when all states are implemented. Table 1 itemizes these factors: 1) additional outputs; 2) addition of an ad hoc query capability for users (query by users as needed using any data element and any combination of arithmetic and logical operators); 3) growth from base year to base-plus-5 years; and 4) addition of nonspatial graphics. The factors are applied differently in the three system modules.

The second adjustment to the URD output estimate is show in Table 2 and is an allocation of the output pagrs to the three system modules: Case Processing, Management Reports and Statistics, and Query. These modules are described in the URD on pages 7-20b in terms of use types, and on pages 7-20c and 20d in terms of user category and function. The allocation of output volume per year for the three modules is: Case Processing, 19 percent; Management Reports, 2 percent; and Query, 79 percent. These percentages asre applied to the 69 million pages of output in the URD, Table 7, cited above. The resulting number of output pages in each module was further divided into interactive and batch output methods as an aid to planning telecommunications facilities, and because the characters per page differ (screens vs line printer).

The right column in each module applies the index developed in Table 1 to change output volume to the implementation year-plus-5.

Finally, the characters of output are estimated by the interactive and batch modes for both time periods. Interactive output pages are assumed to include 500 characters per average page, which is about 25 percent of a 24 line, 80 character/line terminal screen or printer. Batch output pages are assumed to include 2,200 character per average line printer page--about 25 percent of 66 lines of 132 characters per line.

Automated A/N Output - Number of Pages and Characters

- Revision of URD Output Volumes at time of full implementation to 5 years after implementation--see Table 1.
- Allocation of Total Output Volumes to modules:

Case Processing	19 percent
Management Reporting and Statistics	2 percent
Query	79 percent

TABLE 1 - Index for Revision of URD Output Pages at Full Implementation to Output Pages 5 Years after Implementation
(refer to URD, Section 7, Table 7, pages 7-49)

Module Index Factor	Case Processing	Mgmt Reports and Statistics	Query	Total Output
Base Yr All St Implem	100	100	100	300
Increments to Base				
Addit A/N Outputs	Base x0.5= 50	Base x0.5= 50	Base x0.3= 30	
Ad hoc Outputs	Base x0.3= 30	Base x1.0= 100	Base x1.0= 100	
Growth yrs 1 to 5	Base x0.5= 50	Base x0.5= 50	Base x0.5= 50	
Addit nonspat outputs	Base x0.1= 10	Base x0.2= 20	Base x0.1= 10	
Base Yr + 5 Yrs:	240	320	310	870
Index	x 2.4	x 3.2	x 3.1	weighted index x 2.9

TABLE 2 - Output Pages in URD Adjusted by Change Index and Converted to Output Characters of Interactive and Batch Outputs

Module URD and Rev Output Col	Case Processing		Mgmt Reports and Statistics		Query		Total	
Output	URD-all St Implem	Rev 5 yrs after Implem	URD-all St Implem	Rev 5 yrs after Implem	URD-all St Implem	Rev 5 yrs after Implem	URD - all St Implem	Rev 5 yrs after Implem
Pct of Tot Output	19%[5]	[6]	2%[5]	[6]	79%[5]	[6]	100%[5]	[6]
Tot Pg-Mil Yr 1	13.1		1.4		54.5		69.0[1]	
Yr 1 x Index= 5		31.5		4.5		169.0		205.0
Interactive Outputs[2]	7.9	19.0	0.8	2.7	32.7	101.4	41.4	123.0
Batch "[2]	5.2	12.5	0.6	1.8	21.8	67.6	27.6	82.0
Tot Char billions								
[3]Interactive Output, Yr 1	4.0		0.4		16.4		20.8	
Yr 5		9.5		1.4		50.7		61.6
[4]Batch Output, Yr 1	11.4		1.3		48.0		60.7	
Yr 5		27.5		4.4		148.7		180.6
Total Yr 1	15.4		1.7		64.4		81.5	
Total Yr 5		37.0		5.8		199.4		242.2

[1] Total Output Pages 69.0 Million, URD, Section 7, pages 7-49, Table 7

[2] Allocation of Total Outputs: Interactive/Batch
60% / 40%

Interactive Output 24 line x 80 characters = 1,920 char/pg - .25 density = 500

Batch Output 66 line x 132 characters - 8,712 char/pg - .25 density = 2,200

[5] Base Year - All States Implemented

[6] Base Year + 5 Years -- 5 Years after all states implemented

Table 4 distributes the query module output pages and characters to the eleven State Offices covering the lower 48 states. The administrative state totals of characters are distributed to Districts and Resource Areas in Tables 4-1 through 4-11.

Table 4 distributes the query output pages and characters from Table 2 (Table 4, Columns 10 through 13 totals) by using case activity, Column 2 (from Manual System Table 16, Column 0) and the percent of Control Document Indexes and Patents by administrative state, Column 7 (From Table 3*, Column 4). Case activity (Column 2) is weighed 10 to 1 with case volume (Column 7) to create an index to automated query in Column 9A. This is converted to the distribution percent by State in Column 9B.

The automated query module output characters (billions) and pages (millions) totals in Columns 10 through 13 are distributed to individual states using the percentage in Column 9B. Since manual record queries will continue, these are computed in Table 4, Columns 3 through 6, and the continuing manual queries in Columns 4 and 14. Pages of ALMRS (Future) system queries, automated and manual, are totaled in Column 15. The percent of total query pages by state is shown in Column 16.

*Table 3 develops the number of characters and pages output in the future ALMRS Management Reporting and Statistics module.

3/1/85

Table 4 Estimated Number of Automated Records Accesses per Year in the Query Module by Admin State

	Admin State Office	Pct of Case Activity Tbl16 C8	No. of Queries Man. System			Automated Cases			Index to Automd Query I=10×C2+C7		Queries						
			Total Man Syst Tbl 16 Σ1-15	Remain Manual Tbl 16 (Σ1-15)-(C7+C9)	Elim by Automation Tbl16 C7+C9	No. CDIs & ES Pats	Pct CDI/Pat	No of Cases			Automated Number				Manual Queries (1) Col 4	Total Query Pgs C12+C13+C14 (mil)	Pct C15/ΣC15
									indx	Pct	Charact (bill)		Pages (mill.)				
											Inter	Batch	Inter	Batch			
Col	1	2	3	4	5	6	7	8	9A	9B	10	11	12	13	14	15	16
1	Arizona	1.52	1958,277	1390710	567,567	200,000	1	175,000	16	1	0.507	1487	1,014	0.676	1390710	3081	1.66
2	California	4.28	2,279,665	1396989	882676	524,000	4	700,000	47	4	2.028	5.948	4.056	2.704	1396989	8,157	4.38
3	Colorado	6.35	3787412	2049858	1,737554	650000	5	875,000	69	6	3,042	8,922	6.084	4.056	2049858	12.190	6.55
4	Eastern State	6.44	906632	840320	66312	7875000	55	9625000	119	11	5.577	16357	11.154	7.436	840320	19.430	10.45
5	Idaho	3.58	1,877,706	528548	1,349,158	232,000	2	350,000	38	3	1.521	4.461	3.042	2.028	528548	5598	3.01
6	Montana	11.18	4641,848	914546	3727302	2,000,000	14	2450,000	126	12	6.084	17844	12.168	8.112	914546	21.195	11.39
7	Nevada	6.23	2403931	1,883,803	520128	145000	1	,000	63	6	3,042	8922	6.084	4,056	1,883803	12.024	6.46
8	New Mexico	20.46	4,975,651	2,417,641	2558010	1,100,000	8	000	213	19	9.633	28,253	19.266	12844	2417641	34528	18.56
9	Oregon	6.79	2157,344	1,475,180	681,840	840,000	6	,000	74	7	3,549	10.409	7.098	4.732	1,475180	13,305	7.15
10	Utah	10.93	2,274020	1601048	672,972	125,000	1	000	110	10	5.070	14.870	10.140	6.760	1601048	18.501	9.95
11	Wyoming	22.34	6,324,738	2532538	3792200	500000	3	,000	226	21	10647	31.227	21.294	14.196	2,532538	38,023	20.44
	11 S.O Total *	100.00	33587148	17031181	16555,719	14191,000	100	17,500,000	1101	100	50.7	148.7	101.4	67.6	17031,181	186.032	100.00

(1) assume 1 page per query

3 of 4

Table 4-1 Distribution of output Query Characters per year by State to District and Resource Areas. (5 years after implemented in all States)

3/1/85

Office AZ	Percent of State	Characters Output		
		Interactive	Batch	Total
Arizona SO	36	182,520,000	535,320,000	
Arizona Strip DO	3	15,210,000	44,610,000	
Vermillon	2	10,140,000	29,740,000	
Shivwits	2	10,140,000	29,740,000	
Phoenix DO	10	50,700,000	148,700,000	
Lower Gila	9	45,630,000	133,830,000	
Phoenix	11	55,770,000	163,570,000	
Kingman	11	55770,000	163,570,000	
Yuma DO	2	10,140,000	29,740,000	
Yuma	2	10,140,000	29,740,000	
Havasu	2	10,140,000	29,740,000	
Safford	3	15,210,000	44,610,000	
San Simon	4	20,280,000	59,480,000	
Gila	3	15,210,000	44,610,000	
AZ Total		507,000,000	1,487,000,000	

Table A-2 Distribution of output Query Characters per year by State to District and Resource Areas.
(5 years after implemented in all States)

3/1/85

Office CA	Percent of State	Characters Output		
		Interactive	Batch	Total
California SO	6	121,680,000	356,880,000	
Bakersfield DO	6	121,680,000	356,880,000	
Bishop	6	121,680,000	356,880,000	
Folsom	6	121,680,000	356,880,000	
Caliente	6	121,680,000	356,880,000	
Holister	4	81,120,000	237,920,000	
Susanville	3	60,840,000	178,440,000	
Eagle Lake	2	40,560,000	118,960,000	
Suprize	2	40,560,000	118,960,000	
Alturas	2	40,560,000	118,960,000	
Ukiha	8	162,240,000	475,840,000	
Arcadia	4	81,120,000	237,920,000	
Redding	8	162,240,000	475,840,000	
Clear Lake	5	101,400,000	297,400,000	
California Desert	8	162,240,000	475,840,000	
Ridge Crest	6	121,680,000	356,880,000	
El Centro	6	121,680,000	356,880,000	
Barstow	4	81,120,000	237,920,000	
Indio	4	81,120,000	237,920,000	
Needles	4	81,120,000	237,920,000	
		2,028,000,000	5,948,000,000	

Table A-3 Distribution of output Query Characters per year by State to District and Resource Areas.
(5 years after implemented in all States)

3/1/85

Office OO	Percent of State	Characters Output Interactive	 Batch	 Total
Colorado SO	24	730,080,000	2,141,280,000	
Canon City DO	5	152,100,000	446,100,000	
Northeast	3	91,260,000	267,660,000	
San Lius	3	91,260,000	267,660,000	
Royal Gorge	4	121,680,000	356,880,000	
Craig DO	5	152,100,000	446,100,000	
Kremmling	2	60,840,000	178,440,000	
White River	7	212,940,000	624,540,000	
Little Snake	3	91,260,000	267,660,000	
Montrose DO	5	152,100,000	446,100,000	
Uncompahgre	9	273,780,000	802,980,000	
Gunnison	4	121,680,000	356,880,000	
San Jaun	8	243,360,000	713,760,000	
Grand Junction	4	121,680,000	356,880,000	
Grand Junction	8	243,360,000	713,760,000	
Glenwood	6	182,520,000	535,320,000	
		3,042,000,000	8,922,000,000	

3/1/85

Table 4-5 Distribution of output Query Characters per year by State to District and Resource Areas.
(5 years after implemented in all States)

Office ID	Percent of State	Characters Output		
		Interactive	Batch	Total
Idaho SO	34	517,140,000	1,516,740,000	
Boise DO	9	136,890,000	401,490,000	
Cascade	2	30,420,000	89,220,000	
Owhyee	4	60,840,000	178,440,000	
Buineau	5	76,050,000	223,050,000	
Jaibridge	1	15,210,000	44,610,000	
Burley DO	2	30,420,000	89,220,000	
Deep Creek	2	30,420,000	89,220,000	
Snake River	2	30,420,000	89,220,000	
Coeur d Alene DO	2	30,420,000	89,220,000	
Emerald Empire	2	30,420,000	89,220,000	
Cottonwood	4	60,840,000	178,440,000	
Idaho Falls	6	91,260,000	267,660,000	
Pocotdello	7	106,470,000	312,270,000	
Big Butte	3	45,630,000	133,830,000	
Medicine Lodge	1	15,210,000	44,610,000	
Salmon DO	2	30,420,000	89,220,000	
Lemki	2	30,420,000	89,220,000	
Challis Makay	2	30,420,000	89,220,000	
Shoshone DO	2	30,420,000	89,220,000	
Monument	1	15,210,000	44,610,000	
Bennet Hills	4	60,840,000	178,440,000	
Soda Springs	1	15,210,000	44,610,000	
		1,521,000,000	4,461,000 000	

Table 4-6 Distribution of output Query Characters per year by State to District and Resource Areas.
(5 years after implemented in all States)

3/1/85

Office MT	Percent of State	Characters Output: Interactive	Batch	Total
Montana SO	17	1,034,280,000	3,033,480,000	
Butte DO	6	365,040,000	1,070,640,000	
Headwater	5	304,200,000	892,200,000	
Dillion	5	304,200,000	892,200,000	
Garnet	4	243,360,000	713,760,000	
Miles City	7	425,880,000	1,249,080,000	
Big Dry	7	425,880,000	1,249,080,000	
Powder River	7	425,880,000	1,249,080,000	
South Dakota	4	243,360,000	713,760,000	
Billings	5	304,200,000	892,200,000	
Dickinson	4	243,360,000	713,760,000	
Lewistor DO	6	365,040,000	1,070,640,000	
Judith	3	182,520,000	535,320,000	
Phillips	5	304,200,000	892,200,000	
Harve	3	182,520,000	535,320,000	
Valley	6	365,040,000	1,070,640,000	
Great Falls	6	365,040,000	1,070,640,000	
		6,084,000,000	17,844,000,000	

Table A-7 Distribution of output Query Characters per year by State to District and Resource Areas.
(5 years after implemented in all States)

3/1/85

Office NV	Percent of State	Characters Output			
		Interactive	Batch	Total	
Nevada SO	27	821,340,000	2,408,940,000		
Battle Mt.	4	121,680,000	356,880,000		
Shoshone Eureka	2	60,840,000	178,440,000		
Tonopah	5	152,100,000	446,100,000		
Carson City	5	152,100,000	446,100,000		
Lahontan	5	52,100,000	446,100,000		
Walka	2	60,840,000	178,440,000		
Elko DO	3	91,260,000	267,660,000		
Elko RA	2	60,840,000	178,440,000		
Wells	2	60,840,000	178,440,000		
Ely	3	91,260,000	267,660,000		
Egan	2	60,840,000	178,440,000		
Schell	2	60,840,000	178,440,000		
Las Vegas	12	365,040,000	1,070,640,000		
Stateline Esmeralla	3	91,260,000	267,660,000		
Winnemucca	2	60,840,000	178,440,000		
Paradise	2	60,840,000	178,440,000		
Sonama	5	152,100,000	446,100,000		
		3,042,000,000	8,922,000,000		

Table A-8 Distribution of output Query Characters per year by State to District and Resource Areas.
(5 years after implemented in all States)

3/1/85

Office NM	Percent of State	Characters Output		
		Interactive	Batch	Total
New Mexico SO	22	2,119,260,000	6,215,660,000	
Albuquerque	14	1,348,620,000	3,955,420,000	
Reo Puerco	6	577,980,000	1,695,180,000	
Farmington	11	1,059,630,000	3,107,830,000	
Taos	2	192,660,000	565,060,000	
Las Cruces DO	5	481,650,000	1,412,650,000	
Las Cruces Lords-Burg	3	288,990,000	847,590,000	
White Sands	2	192,660,100	565,060,000	
Socorro	2	192,660,000	565,060,000	
Tulsa DO	2	192,660,000	565,060,000	
Oklahoma	4	385,320,000	1,130,120,000	
Roswell DO	11	1,059,630,000	3,107,830,000	
Roswell RA	6	577,980,000	1,695,180,000	
Carlsbad	10	963,300,000	2,825,300,000	
		9,633,000,000	28,253,000,000	

Table A-9A Distribution of output Query Characters per year by State to District and Resource Areas.
(5 years after implemented in all States)

3/1/85

Office OR	Percent of State	Characters Output			
		Interactive	Batch	Total	
Oregon SO	57	2,022,930,000	5,933,130,000		
Burns DO	1	35,490,000	104,090,000		
Three Rivers	1	"	"		
Andrews	1	"	"		
Coos Bay DO	1	"	"		
Myrttewood	1	"	"		
Tiogo	1	"	"		
Umpqua	1	"	"		
Eugene DO	1	"	"		
Noti	1	"	"		
Dorena	1	"	"		
Mohawk	1	"	"		
Lorane	1	"	"		
Lakeview DO	1	"	"		
Kalamath Falls	1	"	"		
Warner Lake	1	"	"		
High Desert	1	"	"		
Medford DO	1	"	"		
Klamath	1	"	"		
Butte Falls	1	"	"		
Jacksonville	1	"	"		
Grants Pass	1	"	"		
Glendale	1	"	"		
Prineville DO	1	"	"		

Oregon Continued

Table 4 - Distribution of output Query Characters per year by State to District and Resource Areas.
(5 years after implemented in all States)

3/1/85

Office OR	Percent of State	Characters Output Interactive	Batch	Total	
Central Oregon	1	35,490,000	104,090,000		
Deschute	1	"	"		
Roseburg DO	1	"	"		
N. Umpqua	1	"	"		
S. Umpqua	1	"	"		
Dillard	1	"	"		
Drain	1	"	"		
Salem DO	1	"	"		
Santeam	1	"	"		
Alsea	1	"	"		
Yarnhill	1	"	"		
Clarkramas	1	"	"		
Tillamook	1	"	"		
Spokane DO	1	"	"		
Wenatchee	1	"	"		
Border	1	"	"		
Vale	1	"	"		
S. Walkuee	1	"	"		
Baker	1	"	"		
Jon Day	1	"	"		
OR Total		3,549 000,000	10 409,000,000		

Table 4-10 Distribution of output Query Characters per year by State to District and Resource Areas.
(5 years after implemented in all States)

3/1/85

Office UT	Percent of State	Characters Output Interactive	Batch	Total
Utah SO	27	1,368,900,000	4,014,900,000	
Salt Lake DO	1	50,700,000	148,700,000	
Bear River	3	152,100,000	446,100,000	
Pony Express	1	50,700,000	148,700,000	
Ceder City DO	3	152,100,000	446,100,000	
Dixie	6	304,200,000	892,200,000	
Kanab	3	152,100,000	446,100,000	
Escalante	1	50,700,000	148,700,000	
Beaver River	3	152,100,000	446,100,000	
Richfield DO	3	152,100,000	446,100,000	
Warm Spring/ Calente	2	101,400,000	297,400,000	
House Range	1	50,700,000	148,700,000	
Henry Mt	1	50,700,000	148,700,000	
Sevicer River	2	101,400,000	297,400,000	
Moab DO	7	354,900,000	1,040,900,000	
San Juan	6	304,200,000	892,200,000	
Grand	6	304,200,000	892,200,000	
Price River	4	202,800,000	594,800,000	
San Rafael	6	304,200,000	892,200,000	
Vernal DO	4	202,800,000	594,800,000	
Diamond	4	202,800,000	594,800,000	
Book Cliff	6	304,200,000	892,200,000	
		5,070,000,000	14,870,000,000	

Table 4-11 Distribution of output Query Characters per year by State to District and Resource Areas.
(5 years after implemented in all States)

3/1/85

Office WY	Percent of State	Characters Output		
		Interactive	Batch	Total
Wyoming SO	9	958,230,000	2,810,430,000	
Casper	4	425,880,000	1,249,080,000	
Platte River	9	958,230,000	2,810,430,000	
Buffalo	9	958,230,000	2,810,430,000	
Newcastle	9	958,230,000	2,810,430,000	
Rawlins DO	4	425,880,000	1,249,080,000	
Divide	4	425,880,000	1,249,080,000	
Medicine Bow	2	212,940,000	624,540,000	
Lander	9	958,230,000	2,810,430,000	
Rock Springs DO	4	425,880,000	1,249,080,000	
Big Sandy	5	532,350,000	1,561,350,000	
Salt Wells	9	958,230,000	2,810,430,000	
Kemmer	9	958,230,000	2,810,430,000	
Pinedal	5	532,350,000	1,561,350,000	
Worland	1	106,470,000	312,270,000	
Grass Creek	2	212,940,000	624,540,000	
Washakie	2	212,940,000	624,540,000	
Cody	4	425,880,000	1,249,080,000	
		10,647,000,000	31,227,000,000	

Table A-4 Distribution of output Query Characters per year by State to District and Resource Areas.
(5 years after implemented in all States)

3/1/85

Office ES	Percent of State	Characters Output		
		Interactive	Batch	Total
ESO SO	64	3,569,280,000	10,468,480,000	
Jackson	18	1,003,860,000	2,944,260,000	
Milwaukee	18	1,003,860,000	2,944,260,000	
		5,577,000,000	16,357,000,000	

ALMRS GRAPHICAL QUERIES

Queries for the ALMRS system will be divided into simple and complex queries that will demand a response of like kind. In the year 1992, the queries are estimated to range from a lower limit of 100 graphical queries/day/site to a maximum of 300 graphical queries/day/site, which will produce 1.1 trillion characters/year to 3.3 trillion characters/year over all sites. We assume that there are 250 sites available within the system for 250 working days. We have assumed that there can be more than one graphics terminal per site.

SPATIAL GRAPHIC REQUIREMENTS FOR THE QUERY MODULE

The Query module spatial graphic requirements are characterized by the following five criteria:

1. Attributes that consist of six or more characters constituting complementary outputs to the spatial graphic displays.
2. Spatial graphic outputs that represent a variety of geometric configurations generically termed maps or plats.
3. Individual attributes that have associated multiple values.
4. Multiple attributes that consist of multiple values used to produce complex geometric configurations.
5. Spatial graphic outputs that are allied to the topological processing function termed "window" that provide successive telescoping screen capabilities upward and downward by area.

OPERATING ASSUMPTIONS

1. There are three maps and/or plats per case comprised, on the average, of 170,000 characters distributed across an average case area of 20 acres.
2. All spatial graphic queries, by definition, are complex and represent 20 percent of the total query requirement (A/N, nonspatial and spatial graphics), or 400 graphic displays per day per site.

3. Functional requirements that call for spatial graphic screen displays and/or hard copy printouts are shown in the following table, and provide a qualitative assessment of spatial graphic output demand by functional requirement.

FUNCTIONAL REQUIREMENT	REQRD SPATIAL GRAPHIC PRODUCT	
	Screen[1]	Hardcopy[2]
VERIFY LLD	X	X
VERIFY MASTER NAME		
VERIFY BOND SURETY		
ASSIGN SERIAL NUMBER		
ASSIGN STIPULATIONS	X	X
AUTOMATE UPDATE		
VERIFY CLOSURE	X	X
VERIFY DOLLAR INTERFACE	X	X
VERIFY CURRENT STATUS	X	X
MODIFY OLD vs NEW APPLICATION	X	X
VALIDATE ACREAGE	X	X
VERIFY ACREAGE HOLDER		
PROCESS LEASE APPLICATION FORM QUESTIONS		
CONDUCT NEPA COMPLIANCE		
TRACK MONITOR PROGRESS	X	X
PREPARE DECISIONS		
PLAN CASEWORK		
ASSESS BOUNDARY EFFECT	X	X
PRODUCE STATUS REPORT OF CASE	X	X
IDENTIFY AREAS AVAILABLE FOR SIMO	X	X
IDENTIFY LEASE AFFECTED BY AGREEMENTS	X	X
CHECK USE AUTHORIZATION	X	X
VERIFY TRACK DILIGENCE REQUIREMENTS	X	X
GENERATE TITLE REPORTS		

[1] Assume 30 perecent of cases require spatial graphics.

[2] Assume 50 percent of this 30 percent that require spatial graphics require hardcopy for overall resultant 15 percent cases that need both spatial graphics and hardcopy.

MODULE 3
MNGMNT. REPORT. & STATISTICS

ALMRS - FUTURE SYSTEM

Management Reporting and Statistical Outputs

Module 3

Estimates for Management Reporting and Statistical Reporting and Statistical Reports were developed as structured outputs for the ALMRS User Requirements Document (URD). Those estimates are in Section 7 of the URD, and are shown in Tables 6 and 7 on pages 7-48 and 7-49. Definitions of the user categories and functions are further discussed on pages 7-20b through 7-20d of the URD.

The estimates included in Section 7 of the URD for the structure outputs were oriented toward the initial implementation of ALMRS within the confines of the equipment and resources BLM had available at that point in time.

The following is a list of 66 structured reports designed for use as management and statistical outputs from ALMRS. A detailed explanation of each can be reviewed in Section 7 of the User Requirements Document. Several of those reports are currently used in Case Recordation.

Output Number	Title
3	Land and Mineral Case Activity Summary for period
4	Case Aging Report as of ______
10	Commodity Value Index List as of ________
11	Pre-authorization Case Load Progress Report for Period ___ to ___
12	Post-authorization Case Load Progress Report for Period ___ to ___
13	Pending O&C Caseload Progress and backlog Report for Period __ to __
14	List of Serial Numbers for Cases with Requested specs as of ___
16	Authorizations Issued, Number & Acres for Per __ to __ & yrs. to date
17	Sum of Pending Action by CaseType, Action, Organization & Action Age Class
18	List of Assignment Actions, Pending & Dispositions, Period ___ to ___
19	Case file Location List with Last & Pending Actions as of ___
20	Report to Congress, Rights-of-way, Title I Sec 28 of Min. Leasing Act
21	Lease, Permit, Easement and Grant Activity, Period ___ to ___
22	Title Transfers Period ___ to ___
23	Non-Competitive Geothermal Leasing, Processing Situation as of ___
27	Future BLM Action Tickler List Period ___ to ___ (Limited Area)
28	Future BLM Action Tickler List Period ___ to ___ (Area up to Adm St)
29	Case List by Disposition Class & User Name as of ____
30	Land & Water Area in _____ (Geo-State) by County as of ______
31	Land & Water Area in ___(BLM Admin St) and __ (Dist) by RA as of ___
32	Land & Water Area in ___(Geo-State) by Congressional Dist as of ____
33	Land & Water Area in ___(Geo-State) by Agency as of ___
34	Land & Water Area in ___(Geo-State) by Agency as of ___
35	Land & Water Area in ___(BLM Admin St) by Agency Admin Area as of ___
36	List of Non-Standard Conditions in Land Description as of ___
37	Special Surveys, List by ownership as of ___
41	Acreage Holding in an Area for Selected Case Type(s) as of ___
42	Pending Unit Agreement List as of ___
43	Authorized Unit Agreement List as of ___
44	Pending Communitization Agreement List as of ___
45	Authorization Communitization Agreement List as of ___
50	Simultaneous Oil & Gas Filing Activity for Period ___ to ___

Output Number	Title
51	Withdrawals & Revocation Progress Report for Period ___ to ___
52	Recreation and Public Purpose Progress Report for Period ___ to ___
53	Pending Mineral Patent Applications, sum by Pending Organization
54	Pending Mineral Patent Applications, by Years Since Filed & Area as of_
55	Pending Min Patent Appl, by Years Since Filing & Pending Act Org
59	Withdrawal Review Progress Report for Period __ to __
60	Recordation of Mining Claims PL94-579, 10-21-76 through FY ___
61	Area Report for PILT for Calendar Year ____
62	Appraisal Progress Report for Period ___ to ___
64	Patents Issued w/ Minerals Reserved to the U.S. 1785 thru FY ___
65	Patents Issued w/ Minerals Reserved to the U.S. During FY ___
66	Continuing Energy Mineral Leases, License, Permit on Publ Lands as of _
67	Continuing Non-Energy Mineral Leases, Lic, Permit on Pub Lands as of _
68	Continuing Min Leases, Lic, & Permit on Acq M.L.Tang & other Fed Lands
69	Noncompetitive Mineral Leases issued, FY ___
70	Mineral Patent Application, FY ___
71	Mineral Patents Issued by Commodity, FY ___
72	Progress Reports on Acquistion of Lands & Interest in Lands for __ to _
73	Project Prog Rept on Acquisition of Lnds & Interest in Lands Per _ to _
74	Withdrawal and Revocation, FY ___
75	Trespass Operations, FY ___
76	Trespass Collections, FY ___
78	Location Index for Acquired Lands & Interest in Lands as of ___
79	Area of O&C Revested Lands, at end of Fiscal Year __
80	Public Lands Under Exclusive Jurisdiction of BLM at end of FY ___
81	Pub Land under Exclusive Jurisdiction BLM, Area & Grazing Dist as of __
82	Activity in Mining Locations, PL 167 & 359, FY ___
86	Competitive Mineral Leases Issued & Bond uses Generated, FY ___
87	Commodity Disposition Summary Report for Period __ to __
88	Commodity Disposition List for Period ___ to ___
89	Use Authorization Revenues Generated for Period ___ to ___
90	Disposition of Mineral Materials, FY ___
91	Mineral Sales, Leases, Permits Report as of ___

Automated A/N Output - Number of Pages and Characters

- Revision of URD Output Volumes at time of full implementation to 5 years after implementation--see Table 1.
- Allocation of Total Output Volumes to modules:

Case Processing	19 percent
Management Reporting and Statistics	2 percent
Query	79 percent

TABLE 1 - Index for Revision of URD Output Pages at Full Implementation to Output Pages 5 Years after Implementation (refer to URD, Section 7, Table 7, pages 7-49)

Module Index Factor	Case Processing	Mgmt Reports and Statistics	Query	Total Output
Base Yr All St Implem	100	100	100	300
Increments to Base				
Addit A/N Outputs	Base x0.5= 50	Base x0.5= 50	Base x0.3= 30	
Ad hoc Outputs	Base x0.3= 30	Base x1.0= 100	Base x1.0= 100	
Growth yrs 1 to 5	Base x0.5= 50	Base x0.5= 50	Base x0.5= 50	
Addit nonspat outputs	Base x0.1= 10	Base x0.2= 20	Base x0.1= 10	
Base Yr + 5 Yrs:	240	320	310	870
				weighted
Index	x 2.4	x 3.2	x 3.1	index x 2.9

TABLE 2 - Output Pages in URD Adjusted by Change Index and Converted to Output Characters of Interactive and Batch Outputs

Module URD and Rev Output Col Output	Case Processing		Mgmt Reports and Statistics		Query		Total	
	URD-all St Implem	Rev 5 yrs after Implem	URD-all St Implem	Rev 5 yrs after Implem	URD-all St Implem	Rev 5 yrs after Implem	URD - all St Implem	Rev 5 yrs after Implem
Pct of Tot Output	19%[5]	[6]	2%[5]	[6]	79%[5]	[6]	100%[5]	[6]
Tot Pg-Mil Yr 1	13.1		1.4		54.5		69.0[1]	
Yr 1 x Index= 5		31.5		4.5		169.0		205.0
Interactive Outputs[2]	7.9	19.0	0.8	2.7	32.7	101.4	41.4	123.0
Batch "[2]	5.2	12.5	0.6	1.8	21.8	67.6	27.6	82.0
Tot Char billions								
[3]Interactive								
Output, Yr 1	4.0		0.4		16.4		20.8	
Yr 5		9.5		1.4		50.7		61.6
[4]Batch								
Output, Yr 1	11.4		1.3		48.0		60.7	
Yr 5		27.5		4.4		148.7		180.6
Total Yr 1	15.4		1.7		64.4		81.5	
Total Yr 5		37.0		5.8		199.4		242.2

[1] Total Output Pages 69.0 Million, URD, Section 7, pages 7-49, Table 7

[2] Allocation of Total Outputs: Interactive/Batch
60% / 40%

Interactive Output 24 line x 80 characters = 1,920 char/pg - .25 density = 500

Batch Output 66 line x 132 characters - 8,712 char/pg - .25 density = 2,200

[5] Base Year - All States Implemented

[6] Base Year + 5 Years -- 5 Years after all states implemented

Table 3 Estimated number of Automated Management and Statistical outputs

Admin State office	Pct. of Case Activity	Automated Cases			Index to Automated query		Management & Statistical outputs					
		No of CDIs & ES Patents	Pct CDI/ ES Pats	No of Cases	INDEX	Pct	Automated number Char (bil)		Pages (Mil)		Total (col 10+10)	Pct
							Inter	Batch	Inter	Batch		
1	2	3	4	5	6	7	8	9	10	11	12	
Arizona	1.52	200,000	1	175,000	16	1	0.014	0.044	0.027	0.018	45,000	1
California	11.28	524,000	4	700,000	47	4	0.056	0.176	0.108	0.072	180,000	4
Colorado	6.35	650,000	5	875,000	69	6	0.084	0.264	0.162	0.108	270,000	6
Eastern ST.	6.44	7,875,000	55	9,625,000	119	11	0.154	0.484	0.297	0.198	495,000	11
Idaho	3.58	232,000	2	350,000	38	3	0.042	0.132	0.081	0.054	135,000	3
Montana	11.18	2,000,000	14	2,450,000	126	12	0.168	0.528	0.324	0.216	540,000	12
Nevada	6.23	145,000	1	175,000	63	6	0.084	0.264	0.162	0.108	270,000	6
New Mexico	20.46	1,100,000	8	1,400,000	213	19	0.266	0.836	0.513	0.342	855,000	19
Oregon	6.79	849,000	6	1,050,000	74	7	0.098	0.308	0.189	0.126	315,000	7
Utah	10.93	125,000	1	175,000	110	10	0.140	0.440	0.270	0.180	450,000	10
Wyoming	22.34	500,000	3	525,000	226	21	0.294	0.924	0.567	0.378	945,000	21
U.S.O. Total	100.00	14,191,000	100	17,500,000	1101	100	1.4	4.4	2.7	1.8	4,500,000	100

Tb 3
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Index numbers were developed to help estimate the number of output pages and characters for outputs needed by the three modules in this report. Four changes are reflected by indexing: (1) additional structured alphanumeric outputs, (2) ad hoc outputs, (3) nonspatial outputs and (4) a five-year growth increment. The computation for the index numbers is shown in Table 1.

The index number of 3.2 resulted from the consideration of the four increments listed in Table 1. An allocation was made of the original estimates of 69 million outputs by the following percentages to the three Modules: Case Processing - 19%; Management Reporting and Statistical Outputs - 2%; and Query - 79%. In addition, an estimate was made for further allocating the outputs on the basis of interactive screens of 60% and batch reports of 40%. The density of the screen is estimated at 25% or 500 characters of a 24 line x 80 character matrix equaling 1920 characters/screen. The density of a page is also estimated at 25% use or 2200 characters of a 66 line x 132 characters totaling 8712 characters.

Table 3, Estimated Number of Automated Management and Statistical Outputs, is a national summary based on percent of case activity taken from Column 0 of the Query Module report for the current system. The Control Document Index column for all except Eastern States, along with the number for Eastern States, is taken from Column 15 of the Table __, current volume of records indicating storage requirements for the current system, and is used as the basis for allocating the estimated 17,500,000 land and mineral cases that will be on the system five years after full implementation of ALMRS.

Column 6 in Table 3 is another index number to help establish a proper allocation among the eleven state offices of the estimated 4,500,000 pages involving 5.8 billion characters.

Tables 4-1 through 4-11 distribute the estimated number of characters per year by State to District and Resource Areas necessary to produce Management Reporting and Statistical Outputs. These estimates are furnished to aid in the planning and telecommunication facilities to serve the remote sites.

Table 4-1 Distribution of Management Reports And Statistical Output Characters Per Year by State to District and Resource Area. (5-years after ALMRS Implementation in all states.)

Office Per Year Total (1992)	%	CHARACTERS INTERACTIVE	CHARACTERS BATCH	
Arizona SO	36	5040,000	15 840 000	
Arizona Strip DO	3	420,000	1 320 000	
Vermillon	2	280,000	880,000	
Shivwits	2	280,000	880,000	
Phoenix DO	10	1,400,000	4,400,000	
Lower Gila	9	1,260,000	3,960,000	
Phoenix	11	1,540,000	4840,000	
Kingman	11	1,540,000	4840 000	
Yuma DO	2	280,000	880,000	
Yuma	2	280,000	880,000	
Havasu	2	280,000	880,000	
Safford	3	420,000	1 320 000	
San Simon	4	560,000	1 760 000	
Gila	3	420,000	1320 000	
ToTaL AZ		14,000,000	44,000,000	

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Table 4-2 Distribution of Management Reports And Statistical Output Characters Per Year by State to District and Resource Area. (5-years after ALMRS Implementation in all states.)

Office Per Year Total (1992)	%	CHARACTERS INTERACTIVE	CHARACTERS BATCH		
California SO	6	3,360,000	10560 000		
Bakersfield DO	6	3,360,000	10 560 000		
Bishop	6	3,360,000	10560 000		
Folsom	6	3,360,000	10 560 000		
Caliente	6	3,360,000	10 560 000		
Holister	4	2,240,000	7,040,000		
Susanville	3	1,680,000	5,280,000		
Eagle Lake	2	1,120,000	3,520,000		
Suprize	2	1,120,000	3,520,000		
Alturas	2	1,120,000	3,520,000		
Ukiha	8	4,480,000	14,080,000		
Arcadia	4	2,240,000	7,040,000		
Redding	8	4,480,000	14,080,000		
Clear Lake	5	2,800,000	8,800,000		
California Desert	8	4,480,000	14,080,000		
Ridge Crest	6	3360,000	10560000		
El Centro	6	3,360,000	10560,000		
Barstow	4	2,240,000	7,040,000		
Indio	4	2,240,000	7,040,000		
Needles	4	2,240,000	7 040 000		
Total CA.		56,000,000	176,000,000		

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Table 4-3 Distribution of Management Reports And Statistical Output Characters Per Year by State to District and Resource Area. (5-years after ALMRS Implementation in all states.)

Office Per Year Total (1992)	%	CHARACTERS INTERACTIVE	CHARACTERS BATCH
Colorado SO	24	20,160,000	63 360 000
Canon City DO	5	4,200,000	13 200 000
Northeast	3	2520000	7920000
San Lius	3	2520000	7920000
Royal Gorge	4	3,360,000	10 560 000
Craig DO	5	4,200,000	13,200000
Kremmling	2	1,680,000	5,280,000
White River	7	5,880,000	18,480,000
Little Snake	3	2520000	7920000
Montrose DO	5	4,200,000	13200000
Uncompahgre	9	7,560,000	23,760000
Gunnison	4	3,360,000	10560000
San Jaun	8	6,720,000	21,120,000
Grand Junction	4	3360000	10560000
Grand Junction	8	6720000	21,170,000
Glenwood	6	5040000	15,840,000
Total [illegible]		84,000,000	264,000,000

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Table 4-5 Distribution of Management Reports And Statistical Output Characters Per Year by State to District and Resource Area. (5-years after ALMRS Implementation in all states.)

Office Per Year Total (1992)	%	CHARACTERS INTERACTIVE	CHARACTERS BATCH
Idaho SO	34	14 280 000	44 880 000
Boise DO	9	3 780 000	11 880,000
Cascade	2	840,000	2 640000
Owhyee	4	1,680,000	5 280000
Buineau	5	2,100,000	6 600000
Jaibridge	1	420,000	1,320 000
Burley DO	2	840,000	2640 000
Deep Creek	2	840 000	2640000
Snake River	2	840 000	2 640000
Coeur d Alene DO	2	840 000	2 640 000
Emerald Empire	2	840 000	2640 000
Cottonwood	4	1 680 000	5 280 000
Idaho Falls	6	2 520 000	7 920 000
Pocotdello	7	2 940 000	9 240 000
Big Butte	3	1,260,000	3960000
Medicine Lodge	1	420,000	1 320 000
Salmon DO	2	840 000	2640 000
Lemki	2	840 000	2 640 000
Challis Makay	2	840 000	2 640 000
Shoshone DO	2	840 000	2 640 000
Monument	1	420 000	1 320 000
Bennet Hills	4	1 680 000	5280 000
Soda Springs	1	420 000	1320 000
Total ID		42,000,000	132,000,000

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Table 4-6 Distribution of Management Reports And Statistical Output Characters Per Year by State to District and Resource Area. (5-years after ALMRS Implementation in all states.)

Office Per Year Total (1992)	%	CHARACTERS INTERACTIVE	CHARACTERS BATCH		
Montana SO	17	28560000	89 760 000		
Butte DO	6	10 080 000	31 680 000		
Headwater	5	8 400 000	26 400 000		
Dillion	5	8 400 000	26 400 000		
Garnet	4	6 720 000	21 120 000		
Miles City	7	11 760 000	36 960 000		
Big Dry	7	11 760 000	36 960 000		
Powder River	7	11 760 000	36 960 000		
South Dakota	4	6 720 000	21 120 000		
Billings	5	8 400 000	26 400 000		
Dickinson	4	6 720 000	21 120 000		
Lewistor DO	6	10 080 000	31 680 000		
Judith	3	5040000	15840000		
Phillips	5	8 400 000	26 400 000		
Harve	3	5 040 000	15 840 000		
Valley	6	10 080 000	31 680 000		
Great Falls	6	10 080 000	31 680 000		
ToTal MT		168,000,000	528,000,000		

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Table 4-7 Distribution of Management Reports And Statistical Output Characters Per Year by State to District and Resource Area. (5-years after ALMRS Implementation in all states.)

Office Per Year Total (1992)	%	CHARACTERS INTERACTIVE	CHARACTERS BATCH		
Nevada SO	27	22 680 000	71 280 000		
Battle Mt.	4	3 360 000	10 560 000		
Shoshone Eureka	2	1 680 000	5 280 000		
Tonopah	5	4 200 000	13 200 000		
Carson City	5	4 200 000	13 200 000		
Lahontan	5	4 200 000	13 200 000		
Walka	2	1 680 000	5 280 000		
Elko DO	3	2 520 000	7 920 000		
Elko RA	2	1 680 000	5 280 000		
Wells	2	1 680 000	5 280 000		
Ely	3	2 520 000	7 920 000		
Egan	2	1 680 000	5 280 000		
Schell	2	1 680 000	5 280 000		
Las Vegas	12	10 080 000	31,680,000		
Stateline Esmeralla	3	2 520 000	7 920 000		
Winnemucca	2	1 680 000	5 280 000		
Paradise	2	1 680 000	5 280 000		
Sonama	5	4 200 000	13 200 000		
Total NV		84,000,000	264,000,000		

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Table 4-8 Distribution of Management Reports And Statistical Output Characters Per Year by State to District and Resource Area. (5-years after ALMRS Implementation in all states.)

Office Per Year Total (1992)	%	CHARACTERS INTERACTIVE	CHARACTERS BATCH		
New Mexico SO	22	58 520 000	183 920,000		
Albuquerque	14	37 240 000	117 040 000		
Reo Puerco	6	15 960 000	50 160 000		
Farmington	11	29 260 000	91 960 000		
Taos	2	5 320 000	16 720 000		
Las Cruces DO	5	13 300 000	41 800 000		
Las Cruces Lords-Burg	3	7 980 000	25, 080 000		
White Sands	2	5 320 000	16 720 000		
Socorro	2	5 320 000	16 720 000		
Tulsa DO	2	5 320 000	16 720 000		
Oklahoma	4	10 640 000	33 440 000		
Roswell DO	11	29 260 000	91 960 000		
Roswell RA	6	15 960 000	50 160 000		
Carlsbad	10	26,600,000	83 600,000		
ToTaL NM		266,000,000	836,000,000		

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Table 4-9 Distribution of Management Reports And Statistical Output Characters Per Year by State to District and Resource Area. (5-years after ALMRS Implementation in all states.)

Office Per Year Total (1992)	%	CHARACTERS INTERACTIVE	CHARACTERS BATCH		
Oregon SO	57	55 860 000	175 560 000		
Burns DO	0	980 000	3 080 000		
Three Rivers	1	"	"		
Andrews	1	"	"		
Coos Bay DO	0	"	"		
Myrttewood	1	"	"		
Tiogo	1	"	"		
Umpqua	1	"	"		
Eugene DO	0	"	"		
Noti	1	"	"		
Dorena	1	"	"		
Mohawk	1	"	"		
Lorane	1	"	"		
Lakeview DO	0	"	"		
Kalamath Falls	1	"	"		
Warner Lake	1	"	"		
High Desert	1	"	"		
Medford DO	0	"	"		
Klamath	1	"	"		
Butte Falls	1	"	"		
Jacksonville	1	"	"		
Grants Pass	1	"	"		
Glendale	1	"	"		
Prineville DO	0	"	"		

(Continued on next page)

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Continued

Table 4-9 Distribution of Management Reports And Statistical Output Characters Per Year by State to District and Resource Area. (5-years after ALMRS Implementation in all states.)

Oregon (Continued)

Office Per Year Total (1992)	%	CHARACTERS INTERACTIVE	CHARACTERS BATCH		
Central Oregon	1	980 000	3080 000		
Deschute	1	〃	〃		
Roseburg DO	0	〃	〃		
N. Umpqua	1	〃	〃		
S. Umpqua	1	〃	〃		
Dillard	1	〃	〃		
Drain	1	〃	〃		
Salem DO	0	〃	〃		
Santeam	1	〃	〃		
Alsea	1	〃	〃		
Yarnhill	1	〃	〃		
Clarkramas	1	〃	〃		
Tillamook	1	〃	〃		
Spokane DO	0	〃	〃		
Wenatchee	1	〃	〃		
Border	1	〃	〃		
Vale	0	〃	〃		
S. Walkuee	1	〃	〃		
Baker	1	〃	〃		
Jon Day	1	〃	〃		
Total OR		98,000,000	308,000,000		

Table 11-10 Distribution of Management Reports And Statistical Output Characters Per Year by State to District and Resource Area. (5-years after ALMRS Implementation in all states.)

Office Per Year Total (1992)	%	CHARACTERS INTERACTIVE	CHARACTERS BATCH		
Utah SO	27	37 800 000	118,800,000		
Salt Lake DO	1	1 400 000	4 400 000		
Bear River	3	4 200 000	13,200 000		
Pony Express	1	1 400 000	4 400 000		
Ceder City DO	3	4 200 000	13 200 000		
Dixie	6	8 400 000	26 400 000		
Kanab	3	4 200 000	13 200 000		
Escalante	1	1 400 000	4 400 000		
Beaver River	3	4 200 000	13 200 000		
Richfield DO	3	4 200 000	13 200 000		
Warm Spring/ Calente	2	2 800 000	8 800 000		
House Range	1	1 400 000	4 400 000		
Henry Mt	1	1 400 000	4 400 000		
Sevicer River	2	2 800 000	8 800 000		
Moab DO	7	9 800 000	30 800 000		
San Juan	6	8 400 000	26 400 000		
Grand	6	8 400 000	26 400 000		
Price River	4	5 600 000	17,600,000		
San Rafael	6	8 400 000	26 400 000		
Vernal DO	4	5 600 000	17.600,000		
Diamond	4	5 600 000	17,600,000		
Book Cliff	6	8 400 000	26 400 000		
Total UT		140 000 000	440 000 000		

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Table 4-11 Distribution of Management Reports And Statistical Output Characters Per Year by State to District and Resource Area. (5-years after ALMRS Implementation in all states.)

Office Per Year Total (1992)	%	CHARACTERS INTERACTIVE	CHARACTERS BATCH		
Wyoming SO	9	26 460 000	83 160 000		
Casper	4	11,760 000	36 960 000		
Platte River	9	26 460 000	83 160 000		
Buffalo	9	26 460 000	83 160 000		
Newcastle	9	26 460 000	83 160 000		
Rawlins DO	4	11 760 000	36 960 000		
Divide	4	11 760 000	36 960 000		
Medicine Bow	2	5 880 000	18 480 000		
Lander	9	26 460 000	83 160 000		
Rock Springs DO	4	11 760 000	36 960 000		
Big Sandy	5	14 700 000	46 200 000		
Salt Wells	9	26 460 000	83 160 000		
Kemmer	9	26 460 000	83 160 000		
Pinedal	5	14 700 000	46 200 000		
Worland	1	2 940 000	9 240 000		
Grass Creek	2	5 880 000	18 480 000		
Washakie	2	5 880 000	18 480 000		
Cody	4	11 760 000	36 960 000		
Total WY		294,000,000	924,000,000		

Table 44 Distribution of Management Reports And Statistical Output Characters Per Year by State to District and Resource Area. (5-years after ALMRS Implementation in all states.)

Office Per Year Total (1992)	%	CHARACTERS INTERACTIVE	CHARACTERS BATCH		
ESO SO	64	98560000	309760000		
Jackson	18	27720000	87,120,000		
Milwaukee	18	27720000	87,120,000		
Total ES		154,000,000	484,000,000		

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MODULE 4
TOPOLOG. GRAPHIC PROCESSING

DATA HANDLING - (Graphic)

The requirements listed for topological processing fall into six basic categories: EDIT, CALCULATE, ASSEMBLE, CONVERT, ADD, and DELETE. They are presented below and represent an aggregated level of requirements.

Topological Processing

1.	EDIT	- Edit all spatial and nonspatial information.
2.	CALCULATE	- Calculate coordinate data to support spatial information. - Calculate nonspatial data to support graphic displays.
3.	ASSEMBLE	- Assemble all spatial and nonspatial data to support graphic displays.
4.	CONVERT	- Convert different coordinate data systems to ALMRS standard formats. - Convert alphanumeric data to spatial data. - Convert alphanumeric data to nonspatial graphs. - Convert ALMRS standard format to interface format.
5.	ADD	- Add spatial and nonspatial data to basic storage.
6.	DELETE	- Delete spatial and nonspatial data from basic storage.

In the accompanying tables, each file is presented with its own character count. Each file is broken out in a way that reflects the character count for each aggregated requirement, and this is done for each administrative state. On the right hand side of the data handling volume data sheet is the total character count by requirement. These totals are then transcribed to the second data handling sheet, which presents the breakout of these totals by requirement for each of the district and area offices within the admin. state. Each District Office within a given admin. state shows a percentage of the total. Each of the area offices related to a given District Office displays a percentage distribution related to the district office percentage. These files do not include the administrative and special boundary files. In order to include these files, each total character count/requirement/by state must be raised by 10% to account for total files needed for graphics.

Initialization (Loading) Of Spatial Information Into The System

It is recognized that a large amount of time, energy, and dollars will be spent in the initialization of the ALMRS system. The files which we have described for graphics will require 100% utilization for the following requirements:

CONVERT
ASSEMBLE
EDIT
ADD

We expect that those items that fall under the CALCULATION requirement will be roughly 50% of the resources spent for the requirements listed above. The DELETE requirement is assumed to represent no requirement at all at this point.

ALMRS DATA-HANDL VOLUME BY STATE FOR GRAPHICS

ADMINISTRATIVE STATE : AZ

GRAPHICAL FUNCTIONAL REQUIREMENT \ FILE NAME	NODE FILE (000 CHARS)	NODE ATTRIBUTE FILE (000 CHARS)	ARC FILE (000 CHARS)	ARC ATTRIBUTE FILE (000 CHARS)	POLYGON FILE (000 CHARS)	POLYGON ATTRIBUTE FILE (000 CHARS)	QUADRANGLE FILE (000 CHARS)	TOTAL CHARS BY REQMT (000 CHARS)
	1588 664	1 624 770	866 544	5 415 900	866 544	17 330 880	385.5	27 693 688
ADD (1) 10%	158 866	162 477	86654	541 590	86654	1 733 088	38.6	2 769 369
ASSEMBLE (2) 30%	476 599	487 431	259 963	1 624 770	259 963	5 199 264	115.6	8 308 106
CALCULATE (3) 10%	158 866	162 477	86654	541 590	86 654	1 733 088	38.6	2 769 369
CONVERSION (4) 5%	79 433	81 238	43 327	270 795	43 327	866 544	19.3	1 384 684
DELETE (5) 5%	79433	81 238	43 327	270 795	43 327	866 544	19.3	1 384 684
EDIT (6) 40%	635 465	649 908	346 618	2 166 360	346 618	6 932 352	154.2	11 077 475

ALMRS DATA-HANDLING VOLUME FOR APHICS BY SITE WITHIN ARIZONA

ARIZONA STATE OFFICE	~~M~~	ADD (000 CHARS)	ASSEMBLE (000 CHARS)	CALCULATE (000 CHARS)	CONVERSION (000 CHARS)	DELETE (000 CHARS)	EDIT (000 CHARS)
TOTALS		2 769 369	8 308 106	2 769 369	1 384 684	1 384 684	11 077 475
Arizona Strip DO (8%)	~~L~~	221 549	664 649	221549	110 775	110 775	886 198
Shivwits AO (35%)	~~L~~	77542	232 627	77542	38 771	38771	310 169
Vermillion AO (65%)	~~D~~	144 007	432 022	144 007	72004	72004	576 029
Phoenix DO (72%)	~~H~~	1 993 946	5 981 836	1993946	996 972	996 972	7 975 782
Phoenix RAH (57%)	~~M~~	1136549	3 409 647	1 136 549	568 274	568 274	4 546 196
Kingman RAH (21%)	~~H~~	418 729	1 256 186	418 729	209 364	209 364	1 674 914
Lower Gila RAH (22%)	~~M~~	438668	1 316 004	438 668	219 334	219 334	1754672
Safford DO (15%)	~~M~~	415 405	1 246 216	415 405	207 703	207 703	1 661 621
Gila AO (40%)	~~M~~	166 162	498 486	166 162	83081	83081	664 648
San Simon AO (60%)	~~L~~	249 243	747 729	249 243	124 622	124622	996 973
Yuma DO (5%)	~~L~~	138 468	415 405	138 468	69 234	69 234	553 874
Havasu RAH (30%)	~~M~~	41540	124 621	41 540	20770	20770	166 162
Yuma AO (70%)	~~D~~	96928	290 784	96928	48 464	48 464	387712
~~TOTAL~~							

ALMRS DATA-HANDL VOLUME BY STATE FOR GRAPHICS

ADMINISTRATIVE STATE : CA

GRAPHICAL FUNCTIONAL REQUIREMENT / FILE NAME		NODE FILE (000 CHARS)	NODE ATTRIBUTE FILE (000 CHARS)	ARC FILE (000 CHARS)	ARC ATTRIBUTE FILE (000 CHARS)	POLYGON FILE (000 CHARS)	POLYGON ATTRIBUTE FILE (000 CHARS)	QUADRAGLE FILE (000 CHARS)	TOTAL CHARS BY REQMT (000 CHARS)
		2 169 992	2 219 310	1 183 632	7 397 700	1 183 632	23 672 640	537	37 827 443
ADD	0%	216 999	221 931	118 363	739 770	118 363	2 367 264	53.7	3 782 744
ASSEMBLE	30%	650 998	665 793	355 090	2 219 310	355 090	7 101 792	161.1	11 348 233
CALCULATE	10%	216 999	221 931	118 363	739 770	118 363	2 367 264	53.7	3 782 744
CONVERSION	5%	108 500	110 966	59 182	369 885	59 182	1 183 632	26.8	1 891 372
DELETE	5%	108 500	110 966	59 182	369 885	59 182	1 183 632	26.8	1 891 372
EDIT	40%	867 997	887 724	473 453	2 959 080	473 453	9 469 056	214.8	15 130 977

ALMRS DATA-HANDLING VOLUME FOR GRAPHICS BY SITE WITHIN CALIFORNIA

CALIFORNIA STATE OFFICE	~~M~~	ADD (000 CHARS)	ASSEMBLE (000 CHARS)	CALCULATE (000 CHARS)	CONVERSION (000 CHARS)	DELETE (000 CHARS)	EDIT (000 CHARS)
TOTALS		3 782 744	11 348 233	3 782 744	1 891 372	1 891 372	15 130 977
Bakersfield DO (35%)	H	1 323 960	3 971 882	1 323 960	661980	661 980	5 295 842
Caliente RAH (32%)	H	423 667	1 271 002	423 667	211 834	211 834	1 694 669
Bishop RAH (8%)	M	105 917	317 750	105 917	52 958	52 958	423 667
Folsom RAH (35%)	H	463 386	1 390 156	463 386	231 693	231 693	1 853 545
Hollister RAH (25%)	M	330990	992 970	330990	165 495	165 495	1 323 960
Susanville DO (8%)	M	302 619	907 859	302 619	151 310	151 310	1 210 478
Eagle Lake RAH (45%)	D	136 179	408 536	136 179	68 089	68 089	544 715
Alturas RAH (30%)	M	90 786	272 358	90 786	45 393	45 393	363 143
Surprise RAH (25%)	M	75 655	226 965	75 655	37 827	37 827	302 620
Ukiah DO (22%)	M	832 204	2 496 611	832 204	416 101	416 101	3 328 815
Redding RAH (45%)	H	374 492	1 123 475	374 492	187 246	187 246	1 497 967
Arcata RAH (25%)	M	208 051	624 152	208 051	104 025	104 025	832 204
Clear Lake AO (30%)		249 661	748 983	249 661	124 830	124 830	998 645
California Desert DO (35%)	H	1 323 960	3 971 882	1 323 960	661 980	661 980	5 295 842
Ridgecrest RAH (20%)	M	264 792	794 376	264 792	132 396	132 396	1 059 168
Indio AO (10%)	M	132 396	397 188	132 396	66 198	66 198	529 584
El Centro RAH (10%)	M	132 396	397 188	132 396	66 198	66 198	529 584
Barstow RAH (40%)	H	529 584	1 588 753	529 584	264 792	264 792	2 118 337
Needles RAH (20%)	M	264 792	794 376	264 792	132 396	132 396	1 059 168
~~TOTAL~~							

ALMRS DATA-HAND[illegible], VOLUME BY STATE FOR GRAPHICS

ADMINISTRATIVE STATE : CO

GRAPHICAL FUNCTIONAL REQUIREMENT / FILE NAME		NODE FILE (000 CHARS)	NODE ATTRIBUTE FILE (000 CHARS)	ARC FILE (000 CHARS)	ARC ATTRIBUTE FILE (000 CHARS)	POLYGON FILE (000 CHARS)	POLYGON ATTRIBUTE FILE (000 CHARS)	QUADRANGLE FILE (000 CHARS)	TOTAL CHARS BY REQMT (000 CHARS)
		1 731 730	1 771 087.5	944 580	5 903 625	944 580	18 891 600	631.5	30 187 835
ADD	10%	173 173	177 109	94458	590 362	94458	1 889 160	63.2	3 018 784
ASSEMBLE	30%	519 519	531 326	283 374	1 771 088	283 374	5 667 480	189.4	9 056 350
CALCULATE	10%	173 173	177 109	94458	590 362	94458	1 889 160	63.2	3 018 784
CONVERSION	5%	86 586	88 554	47229	295 181	47229	944 580	31.6	1 509 392
DELETE	5%	86586	88554	47229	295 181	47229	944 580	31.6	1 509 392
EDIT	40%	692 692	708 435	377 832	2 361 450	377 632	7 556 640	252.6	12 075 134

ALMRS DATA - HANDLING VOLUME F GRAPHICS BY SITE WITHIN COLO O

COLORADO STATE OFFICE	H	ADD (000CHARS)	ASSEMBLE (000 CHARS)	CALCULATE (000CHARS)	CONVERSION (000CHARS)	DELETE (000 CHARS)	EDIT (000CHARS)
TOTALS		3 018 784	9 056 350	3018 784	1 509 392	1 509 392	12 075 134
Canon City DO (78%)	M	2 354 652	7 063 953	2 354 652	1 177 326	1 177 326	9 418 604
Northeast RAH (75%)	M	1 765989	5 297 965	1 765989	882 994	882 994	7 063 953
Royal Gorge RAH (19%)	M	447384	1 342 151	447384	223 692	223 692	1 789 535
San Luis RAH (6%)	L	141 279	423 837	141 279	70 639	70 639	565 116
Craig DO (9%)	H	271 690	815 072	271 690	135 845	135 845	1 086 762
Kremmling RAH (30%)	L	81 507	244 521	81 507	40 754	40 754	326029
Little Snake RAH (40%)	H	108676	326 029	108 676	54 338	54 338	434 705
White River RAH (30%)	H	81 507	244521	81 507	- 40 754	40754	326029
Grand Junction DO (4%)	H	120 751	362 254	120 751	60 376	60 376	483 005
Glenwood Springs RAH (50%)	M	60 375	181 127	60 375	30188	30188	241 502
Grand Junction AO (50%)	H	60 376	181 127	60 376	30188	30188	241 503
Montrose DO (9%)	H	271 690	815 072	271 690	135 845	135 845	1 086 762
Gunnison Basin RAH (28%)	M	76 073	228 220	76 073	38 037	38037	304 293
San Juan RAH (40%)	H	108676	326 029	108676	54338	54338	434 705
Uncompahgre RAH (32%)	M	86941	260 823	86941	43470	43 470	347 764
~~TOTAL~~							

ALMRS DATA-HANDL G VOLUME BY STATE FOR GRAPHICS

ADMINISTRATIVE STATE : ID

FILE NAME / GRAPHICAL FUNCTIONAL REQUIREMENT		NODE FILE (000 CHARS)	NODE ATTRIBUTE FILE (000 CHARS)	ARC FILE (000 CHARS)	ARC ATTRIBUTE FILE (000 CHARS)	POLYGON FILE (000 CHARS)	POLYGON ATTRIBUTE FILE (000 CHARS)	QUADRANGLE FILE (000 CHARS)	TOTAL CHARS BY REQMT (000 CHARS)
		1168 728	1 195 290	637 488	3 984 300	637 488	12 749 760	283.5	20 373 338
ADD	10%	116 873	119 529	63 749	398 430	63 749	1 274 976	28.4	2 037 334
ASSEMBLE	30%	350 618	358 587	191 246	1 195 290	191 246	3 824 928	85	6 112 001
CALCULATE	10%	116 873	119 529	63749	398430	63749	1 274 976	28.4	2 037 334
CONVERSION	5%	58 436	59 764	31 874	199 215	31 874	637 488	14.2	1 018 667
DELETE	5%	58 436	59 764	31 874	199 215	31 874	637 488	14.2	1 018 667
EDIT	40%	467 491	478 116	254 995	1 593 720	254 995	5 099 904	113.4	8 149 335

ALMRS DATA-HANDLING VOLUME R GRAPHICS BY SITE WITHIN ID

IDAHO STATE OFFICE		~~S~~	ADD (000 CHARS)	ASSEMBLE (000 CHARS)	CALCULATE (000 CHARS)	CONVERSION (000 CHARS)	DELETE (000 CHARS)	EDIT (000 CHARS)
TOTALS			2 037 334	6 112 001	2037 334	1 018 667	1018 667	8 149 335
Boise DO (24%)		~~H~~	488 960	1 466 880	488 960	244 480	244 480	1 955 840
Bruneau AO	(20%)	~~H~~	97792	293 376	97 792	48 896	48896	391 168
Cascade AO	(45%)	~~M~~	220032	660 096	220 032	110 016	110016	880 128
Jarbidge AO	(17%)	~~L~~	83 123	249 370	83 123	41 562	41562	332 493
Owyhee AO	(18%)	~~H~~	88 013	264 038	88 013	44 006	44 006	352 051
Burley DO (10%)		~~L~~	203 733	611 200	203 733	101 867	101 867	814 934
Deep Creek AO	(40%)	~~L~~	81 493	244 480	81 493	40 747	40 747	325 973
Snake River AO	(60%)	~~H~~	122 240	366 720	122 240	61 120	61 120	488 960
Coeur d' Alene DO (24%)		~~L~~	488 960	1 466 880	488 960	244 480	244 480	1 955 840
Cottonwood RAH	(60%)	~~M~~	195 584	880 128	195 584	146 688	146 688	1 173 504
Emerald Empire AO	(40%)	~~L~~	293 376	586 752	293 376	97 792	97 792	782 336
Idaho Falls DO (18%)		~~M~~	366 720	1 100 160	366 720	183 360	183 360	1 466 880
Big Butte AO	(30%)	~~M~~	110016	330 048	110 016	55 008	55008	440064
Medicine Lodge AO	(40%)	~~M~~	146 688	440 064	146 688	73 344	73 344	586 752
Pocatello RAH	(30%)	~~H~~	110016	330 048	110 016	55008	55008	440 064
Soda Springs AO	(–)							
Salmon DO (15%)		~~L~~	305 600	916 800	305 600	152 800	152 800	1 222 400
Challis AO	(78%)	~~D~~	238 368	715 104	238 868	119 184	119 184	953 472
Lemhi AO	(22%)	~~L~~	67 232	201 696	67 232	33 616	33 616	268 928
Shoshone DO (8%)		~~L~~	162 987	488 960	162 987	81 493	81 493	651 947
Bennett Hills AO	(48%)	~~M~~	78 234	234 701	78 234	39 117	39 117	312 934
Monument AO	(52%)	~~L~~	84 753	254 259	84 753	42 376	42 376	339 012
~~TOTAL~~								

ALMRS DATA-HANDL , VOLUME BY STATE FOR GRAPHICS

ADMINISTRATIVE STATE : MT

GRAPHICAL FUNCTIONAL REQUIREMENT \ FILE NAME		NODE FILE (000 CHARS)	NODE ATTRIBUTE FILE (000 CHARS)	ARC FILE (000 CHARS)	ARC ATTRIBUTE FILE (000 CHARS)	POLYGON FILE (000 CHARS)	POLYGON ATTRIBUTE FILE (000 CHARS)	QUADRAGLE FILE (000 CHARS)	TOTAL CHARS BY REQMT (000 CHARS)
		2 956 140	3 023 325	1 612 440	10 077 750	1 612 440	32 248 880	997.5	51 531 973
ADD	10%	295 614	302 332	161 244	1 007 775	161 244	3 224 888	99.8	5 153 197
ASSEMBLE	30%	886 842	906 998	483 732	3 023 325	483 732	9 674 664	299.2	15 459 592
CALCULATE	10%	295 614	302 332	161 244	1 007 775	161 244	3 224 888	99.8	5 153 197
CONVERSION	5%	147 807	151 166	80 622	503 888	80 622	1 612 444	49.9	2 576 599
DELETE	5%	147 807	151 166	80 622	503 888	80 622	1 612 444	49.9	2 576 599
EDIT	40%	1 182 456	1 209 330	644 976	4 031 100	644 976	12 899 552	399.0	20 612 789

ALMRS DATA-HANDLING VOLUME: GRAPHCS BY SITE WITHIN MONTANA

MONTANA STATE OFFICE		H	ADD (000 CHARS)	ASSEMBLE (000 CHARS)	CALCULATE (000 CHARS)	CONVERSION (000 CHARS)	DELETE (000 CHARS)	EDIT (000 CHARS)
TOTALS			5 153 197	15 459 592	5 153 197	2 576 599	2 576 599	20 612 789
Butte DO (17%)		M	876 043	2 628 131	876 043	438 022	438 022	3 504 174
Dillon RAH	(20%)	M	175 209	525 626	175 209	87604	87 604	700 835
Garnet RAH	(50%)	M	438 022	1 314 065	438 022	219 011	219 011	1 752 087
Headwater AO	(30%)	M	262 813	788 439	262 813	131 406	131 406	1 051 252
Dickinson DO (24%)		M	1 236 767	3 710 302	1 236 767	618 384	618 384	4947069
Lewistown DO (12%)		H	618 384	1 855 151	618 384	309 192	309 192	2 473 535
Great Falls RAH	(35%)	H	216 434	649 303	216 434	108 217	108 217	865 737
Havre RAH	(21%)	L	129 860	389 582	129 860	64930	64930	519 442
Judith AO	(22%)	L	136 044	408 133	136 044	68022	68022	544 178
Phillips RAH	(12%)	M	74206	222 618	74 206	37103	37103	296 824
Valley RAH	(10%)	H	61 838	185 515	61 838	30919	30 919	247 353
Miles City DO (46%)		H	2 370 470	7 111 412	2 370 470	1 185 236	1 185 236	9 481 883
Big Dry RAH	(22%)	H	521 504	1 564 511	521 504	260 752	260 752	2 086 014
Billings RAH	(12%)	M	284456	853 369	284 456	142 228	142 228	1 137 826
Powder River RAH	(10%)	H	237 047	711 141	237047	118 523	118 523	948 188
South Dakota RAH	(56%)	M	1 327 464	3 982 391	1 327 464	663 732	663 732	5 309 854
~~TOTAL~~								

ALMRS DATA-HAND[illegible] VOLUME BY STATE FOR GRAPHICS

ADMINISTRATIVE STATE : NV

GRAPHICAL FUNCTIONAL REQUIREMENT / FILE NAME		NODE FILE (000 CHARS)	NODE ATTRIBUTE FILE (000 CHARS)	ARC FILE (000 CHARS)	ARC ATTRIBUTE FILE (000 CHARS)	POLYGON FILE (000 CHARS)	POLYGON ATTRIBUTE FILE (000 CHARS)	QUADRAGLE FILE (000 CHARS)	TOTAL CHARS BY REQMT (000 CHARS)
		1 536 260	1 571 175	837 960	5 237 250	837 960	16 759 200	325.5	26 780 131
ADD	10%	153 626	157 118	83 796	523 725	83 796	1 675 920	32.6	2 678 013
ASSEMBLE	30%	460 878	471 352	251 388	1 571 175	251 388	5 027 760	97.6	8 034 039
CALCULATE	10%	153 626	157 118	83 796	523 725	83 796	1 675 920	32.6	2 678 013
CONVERSION	5%	76 813	78 559	41 898	261 862	41 898	837 960	16.3	1 339 006
DELETE	5%	76 813	78 559	41 898	261 862	41 898	837 960	16.3	1 339 006
EDIT	40%	614 504	628 470	335 184	2 094 900	335 184	6 703 680	130.2	10 712 052

ALMRS DATA-HANDLING VOLUME R GRAPHICS BY SITE WITHIN VADA

NEVADA STATE OFFICE		M	ADD (000 CHARS)	ASSEMBLE (000 CHARS)	CALCOLATE (000 CHARS)	CONVERSION (000 CHARS)	DELETE (000 CHARS)	EDIT (000 CHARS)
TOTALS			2 678 013	8 034 039	2 678 013	1 339 006	1 339 006	10 712 052
Battle Mountain DO (20%)		L	535 603	1 606 808	535 603	267 801	267 801	2 142 410
Shoshone-Eureka AO	(45%)	L	241021	723064	241021	120510	120510	964085
Tonopah RAH	(55%)	M	294581	883744	294581	147 291	147291	1 178 326
Carson City DO (15%)		M	401 702	1 205 106	401 702	200 851	200 851	1 606 808
Lahontas AO	(55%)	M	220 936	662 808	220 936	110 468	110 468	883 744
Walker AO	(45%)	L	180 765	542 298	180 765	90 383	90 383	723 064
Elko DO (15%)		L	401 702	1 205 106	401 702	200 851	200 851	1 606 808
Elko AO	(50%)	M	200 851	602 553	200 851	100 425	100 425	803 404
Wells AO	(50%)	L	200 851	602 553	200 851	100 426	100 426	803 404
Ely DO (15%)		L	401 702	1 205 106	401 702	200 851	200 851	1 606 808
Egan AO	(50%)	L	200 851	602 553	200 851	100 425	100 425	803 404
Schell AO	(50%)	L	200 851	602 553	200 851	100 426	100426	803 404
Las Vegas DO (20%)		H	535 603	1 606 808	535 603	267 801	267 801	2 142 410
Caliente RAH	(45%)	L	241 021	723 064	241 021	120 510	120510	964085
Stateline- Esmeralda AO	(55%)	H	294 581	883 744	294 581	147291	147291	1178 326
Winnemucca DO (15%)		L	401 702	1205 106	401 702	200 851	200851	1 606 808
Paradise-Denio AO	(45%)	L	180 765	542 298	180 765	90 383	90 383	723 064
Sonoma-Gerlach AO	(55%)	M	220936	662 808	220 936	110 468	110 468	883744
~~TOTAL~~								

ALMRS DATA-HANDL[illegible] VOLUME BY STATE FOR GRAPHICS

ADMINISTRATIVE STATE : NM

GRAPHICAL FUNCTIONAL REQUIREMENT / FILE NAME		NODE FILE (000 CHARS)	NODE ATTRIBUTE FILE (000 CHARS)	ARC FILE (000 CHARS)	ARC ATTRIBUTE FILE (000 CHARS)	POLYGON FILE (000 CHARS)	POLYGON ATTRIBUTE FILE (000 CHARS)	QUADRAGLE FILE (000 CHARS)	TOTAL CHARS BY REQMT (000 CHARS)
		1 892 176	1 935 180	1 032 096	6 450 600	1 032 096	20 641 920	1564.8	32 985 633
ADD	10%	189 218	193 518	103 210	645 060	103 210	2 064 192	156.4	3 298 564
ASSEMBLE	30%	567 653	580 554	309 629	1 935 180	309 629	6 192 576	469.4	9 895 690
CALCULATE	10%	189 218	193 518	103 210	645 060	103 210	2 064 192	156.4	3 298 564
CONVERSION	5%	94 609	96 759	51 605	322 530	51 605	1 032 096	78.2	1 649 282
DELETE	5%	94 609	96 759	51 605	322 530	51 605	1 032 096	78.2	1 649 282
EDIT	40%	756 870	774 072	412 838	2 580 240	412 838	8 256 768	625.8	13 194 253

ALMPS DATA-HANDLING VO FOR GRAPHICS BY SITE WITHIN NEW M O

			ADD (000)	ASSEMBLE (000)	CALCULATE (000)	CONVERSION (000)	DELETE (000)	EDIT (000)
NEW MEXICO STATE OFFICE		H	3298564	9895690	3298564	1649282	1649282	13194253
Albuquerque DO	11%	H	362842.0	1088525.9	362842.0	181421.0	181421.0	1451367.8
Farmington RAH	27%	H	97967.3	293902.0	97967.3	48983.7	48983.7	391869.3
Rio Peuerco AO	27%	H	97967.3	293902.0	97967.3	48983.7	48983.7	391869.3
Taos RAH	46%	L	166907.4	500721.9	166907.4	83453.6	83453.6	667629.2
Las Cruces DO	13%		428813.3	1286439.7	428813.3	214406.7	214406.7	1715252.9
Las Cruces/ Lordsburg RAH	23%	L	98627.1	295881.1	98627.1	49313.5	49313.5	394508.2
Socorro RAH	22%	M	94338.9	283016.7	94338.9	47169.5	47169.5	377355.6
White Sands AO	55%	L	235847.3	707541.9	235847.3	117923.7	117923.7	943389.1
Roswell DO	33%	H	1088526.1	3265577.7	1088526.1	544263.1	544263.1	4354103.5
Carlsbad RAH	85%	H	925247.2	2775741.0	925247.2	462623.6	462623.6	3700988.0
Roswell AO	15%	H	163278.9	489836.7	163278.9	81639.5	81639.5	653115.5
Tulsa DO	43%	M	1418382.5	4255146.7	1418382.5	709191.3	709191.3	5673528.8
Oklahoma RAH	(100%)	M	1418382.5	4255146.7	1418382.5	709191.3	709191.3	5673528.8
TOTAL								

ALMRS DATA-HANDL , VOLUME BY STATE FOR GRAPHICS

ADMINISTRATIVE STATE : OR

GRAPHICAL FUNCTIONAL REQUIREMENT / FILE NAME		NODE FILE (000 CHARS)	NODE ATTRIBUTE FILE (000 CHARS)	ARC FILE (000 CHARS)	ARC ATTRIBUTE FILE (000 CHARS)	POLYGON FILE (000 CHARS)	POLYGON ATTRIBUTE FILE (000 CHARS)	QUADRAGLE FILE (000 CHARS)	TOTAL CHARS BY REQ MT (000 CHARS)
		2 283 644	2 335 545	1 245 624	7 785 150	1 245 624	24 912 480	486.0	39 808 553
ADD	10%	228 364	233 554	124 562	778 515	124 562	2 491 248	48.6	3 980 855
ASSEMBLE	30%	685 093	700 664	373 687	2 335 545	373 687	7 473 744	145.8	11 942 566
CALCULATE	10%	228 364	233 554	124 562	778 515	124 562	2 491 248	48.6	3 980 855
ONVERSION	5%	114 182	116 777	62 281	389 258	62 281	1 245 624	24.3	1 990 428
DELETE	5%	114 182	116 777	62 281	389 258	62 281	1 245 624	24.3	1 990 428
DIT	40%	913 458	934 218	498 250	3 114 060	498 250	9 964 992	194.4	15 923 421

ALMRS DATA-HAN[illegible] VOLUME FOR GRAPHICS BY SITE WITHIN [illegible]ON

OREGON STATE OFFICE		M	ADD (CHAR 000) 3980855	ASSEMBLE (CHAR 000) 11942566	CALCULATE (CHAR 000) 3980855	CONVERSION (CHAR 000) 1990428	DELETE (CHAR 000) 1990428	EDIT (CHAR 000) 15923421
Burns DO	9%	M	358276.9	1074830.9	358276.9	179138.5	179138.5	1433107.9
Three Rivers AO	70%	H	250793.8	752381.7	250793.8	125397.0	125397.0	1003175.5
Andrews AO	30%	M	107483.1	322449.2	107483.1	53741.5	53741.5	429932.4
~~John Day AO~~								
Coos Bay DO	3%	M	119425.7	358277.0	119425.7	59712.8	59712.8	477702.6
Tioga AO	25%	M	29856.4	89569.2	29856.4	14928.2	14928.2	119425.7
Umpqua AO	25%	M	29856.4	89569.2	29856.4	14928.2	14928.2	119425.7
Myrtlewood AO	50%	M	59712.9	179138.6	59712.9	29856.4	29856.4	238851.2
Eugene DO	3%	M	119425.7	358277.0	119425.7	59712.8	59712.8	477702.6
Noti RAH	15%	L	17913.8	53741.5	17913.8	8956.9	8956.9	71655.4
Dorena AO	15%	L	17913.8	53741.5	17913.8	8956.9	8956.9	71655.4
Mohawk AO	40%	M	44770.4	143310.8	44770.4	23885.1	23885.1	191081.0
Lorane AO	30%	M	35827.7	107483.2	35827.7	17913.9	17913.9	143310.8
Lakeview DO	9%	L	358276.9	1074830.9	358276.9	179138.5	179138.5	1433107.9
Warner Lake AO	30%	L	107483.1	322449.2	107483.1	53741.5	53741.5	429932.4
High Desert AO	30%	M	107483.1	322449.2	107483.1	53741.5	53741.5	429932.4
Klamath Falls RAH	40%		143310.7	429932.5	143310.7	71655.5	71655.5	573243.1
Medford DO	3%	H	119425.7	358277.0	119425.7	59712.8	59712.8	477702.6
Klamath AO	25%	H	29856.4	89569.2	29856.4	14928.2	14928.2	119425.7
Butte Falls AO	20%	H	23885.1	71655.4	23885.1	11942.5	11942.5	95540.5
Jacksonville AO	15%	H	17913.9	53741.5	17913.9	8956.9	8956.9	71655.4
Grants Pass AO	30%	H	35827.7	107483.2	35827.7	17913.9	17913.9	143310.8
Glendale AO	10%	M	11942.6	35827.7	11942.6	5971.3	5971.3	47770.2
Prineville DO	9%	M	358276.9	1074830.9	358276.9	179138.5	179138.5	1433107.9
Central Oregon AO	40%	M	143310.7	429932.4	143310.7	71655.5	71655.5	573243.2
Deschutes AO	60%	M	214966.2	644898.6	214966.2	107483.0	107483.0	859864.7
Roseburg DO	2%	M	79617.1	238851.3	79617.1	39808.6	39808.6	318468.4
No Umpqua AO	55%	L	43789.4	131368.2	43789.4	21894.7	21894.7	175157.6
So Umpqua AO	20%	M	15923.4	47770.3	15923.4	7961.7	7961.7	63693.7
Dillard AO	10%	L	7961.7	23885.1	7961.7	3980.9	3980.9	31846.8
Drain AO	15%	L	11942.6	35827.7	11942.6	5971.3	5971.3	47770.3
TOTAL								

(Continued next page)

			ADD (CHAR 000)	ASSEMBLE (CHAR 000)	CALCULATE (CHAR 000)	CONVERSION (CHAR 000)	DELETE (CHAR 000)	EDIT (CHAR 000)
ORECON STATE OFFICE (cont.)			3980855	11942566	3980855	1990428	1990428	15923421
Salem DO	6%	M	238851.3	716554.0	238851.3	119425.7	119425.7	955405.3
Santiam AO	15%	L	35827.7	107483.1	35827.7	17913.9	17913.9	143310.8
Alsea AO	20%	M	47770.3	143310.8	47770.3	23885.1	23885.1	191081.1
Tillamook RAH	23%	M	54935.8	164867.4	54935.8	27467.9	27467.9	219743.2
Yamhill AO	22%	L	52547.2	157641.9	52547.2	26273.6	26273.6	210189.2
Clackamas AO	20%	L	47770.3	143310.8	47770.3	23885.1	23885.1	191081.1
Spokane DO	41%	L	1632150.6	4896452.1	1632150.6	816075.5	816075.5	6528602.6
Border AO	50%	L	816675.3	2448226.0	816075.3	408037.7	408037.7	3264301.3
Wenatchee RAH	50%	L	816075.3	2448226.0	816075.3	408037.7	408037.7	3264301.3
Vale DO	15%	H	597128.3	1791384.9	597128.3	298564.2	298564.2	2388513.2
No Malheur AO	25%	H	149282.1	447846.2	149282.1	74641.1	74641.0	597128.4
Baker RAH	45%	H	268707.7	806123.2	268707.7	134353.9	134353.9	1074830.9
So Malheur AO	30%	H	179138.5	537415.5	179138.5	89569.3	- 89569.3	716553.9
TOTAL								
GRAND TOTAL								

ALMRS DATA-HANDL , VOLUME BY STATE FOR GRAPHICS

ADMINISTRATIVE STATE : UT

GRAPHICAL FUNCTIONAL REQUIREMENT \ FILE NAME		NODE FILE (000 CHARS)	NODE ATTRIBUTE FILE (000 CHARS)	ARC FILE (000 CHARS)	ARC ATTRIBUTE FILE (000 CHARS)	POLYGON FILE (000 CHARS)	POLYGON ATTRIBUTE FILE (000 CHARS)	QUADRAGLE FILE (000 CHARS)	TOTAL CHARS BY REQMT (000 CHARS)
		1 160 038	1 186 402.5	632 748	3 954 675	632 748	12 654 960	288	20 221 860
ADD	10%	116 004	118 640	63 275	395 468	63 275	1 265 496	28.8	2 022 186
ASSEMBLE	30%	348 011	355 921	189 824	1 186 402	189 824	3 796 488	86.4	6 066 644
CALCULATE	10%	116 004	118 640	63 275	395 468	63 275	1 265 496	28.8	2 022 186
CONVERSION	5%	58 002	59 320	31 637	197 734	31 637	632 748	14.4	1 011 107
DELETE	5%	58 002	59 320	31 637	197 734	31 637	632 748	14.4	1 011 107
EDIT	40%	464 015	474 561	253 099	1 581 870	253 099	5 061 984	115.2	8 088 859

ALMPS DATA-HANDLING VOL FOR GRAPHICS BY SITE WITHIN UTAH

			ADD (000)	ASSEMBLE (000)	CALCULATE (000)	CONVERSION (000)	DELETE (000)	EDIT (000)
UTAH STATE OFFICE		H	2022186	6066644	2022186	1011107	1011107	8088859
Cedar City DO	20%	M	404437.2	1213328.8	404437.2	202221.4	202221.4	1617771.8
Beaver River RAH	35%	M	141553.0	424665.1	141553.0	70777.5	70777.5	566220.1
Dixie RAH	15%	H	60665.6	181999.3	60665.6	30333.2	30333.2	242665.8
Escalante RAH	20%	L	80887.4	242665.8	80887.4	40444.3	40444.3	323554.4
Kanab RAH	30%	M	121331.2	363998.6	121331.2	60666.4	60666.4	485331.5
Moab DO	23%	H	465102.8	1395328.1	465102.8	232554.6	232554.6	1860437.6
Grand RAH	30%	H	139530.8	418598.4	139530.8	69766.4	69766.4	558131.2
Price River RAH	17%	M	79067.5	237205.8	79067.5	39534.3	39534.3	316274.4
San Juan RAH	35%	H	162786.0	488364.8	162786.0	81394.1	81394.1	651153.2
San Rafael RAH	18%	H	83718.5	251157.1	83718.5	41859.8	41859.8	334878.8
Richfield DO	20%	M	404437.2	1213328.8	404437.2	202221.4	202221.4	1617771.8
Henry Mountain RAH	23%	L	93020.6	279065.6	93020.6	46510.9	46510.9	372087.5
House Range RAH	25%	L	101109.3	303332.2	101109.3	50555.4	50555.4	404442.9
Sevier River RAH	28%	M	113242.4	339732.1	113242.4	56622.0	56622.0	452976.1
Warm Springs RAH	24%	M	97064.9	291198.9	97064.9	48533.1	48533.1	388265.3
Salt Lake DO	27%	L	545990.2	1637993.9	545990.2	272998.9	272998.9	2183991.9
Bear River AO	60%	M	327594.1	982796.3	327594.1	163799.3	163799.3	1310395.1
Pony Express AO	40%	L	218396.1	655197.6	218396.1	109199.6	109199.6	873596.8
Vernal DO	10%	M	202218.6	606664.4	202218.6	101110.7	101110.7	808885.9
Book Cliffs AO	35%	H	70776.5	212332.5	70776.5	35388.8	35388.8	283110.1
Diamond Mountain AO	65%	M	131442.1	394331.9	131442.1	65721.9	65721.9	525775.8

ALMRS DATA-HANDL, VOLUME BY STATE FOR GRAPHICS

ADMINISTRATIVE STATE : WY

FILE NAME / GRAPHICS FUNCTIONAL REQUIREMENT		NODE FILE (000 CHARS)	NODE ATTRIBUTE FILE (000 CHARS)	ARC FILE (000 CHARS)	ARC ATTRIBUTE FILE (000 CHARS)	POLYGON FILE (000 CHARS)	POLYGON ATTRIBUTE FILE (000 CHARS)	QUADRAGLE FILE (000 CHARS)	TOTAL CHARS BY REQMTS (000 CHARS)
		1528 758	1563 502.5	833 868	5211 675	833 868	16 677 360	592.5	26 649 624
ADD	10%	152 876	156 350	83387	521 168	83387	1 667 736	59.2	2 664 962
ASSEMBLE	30%	458 627	469 051	250 160	1 563 502	250 160	5 003 208	177.8	7 994 887
CALCULATE	10%	152 876	156 350	83387	521 168	83387	1 667 736	59.2	2 664 962
CONVERSION	5%	76 440	78175	41 693	260 584	41 693	833 868	29.6	1 332 481
DELETE	5%	76 440	78175	41 693	260 584	41 693	833 868	29.6	1 332 481
EDIT	40%	611 503	625 401	333 547	2 084 670	333 547	6 670 944	237	10 659 850

ALMRS DATA-HANDLING VOLUME R GRAPHICS BY SITE WITHIN WY JG

WYOMING STATE OFFICE		~~H~~	ADD (000 CHARS)	ASSEMBLE (000 CHARS)	CALCULATE (000 CHARS)	CONVERSION (000 CHARS)	DELETE (000 CHARS)	EDIT (000 CHARS)
TOTALS			2 664 962	7 994 887	2 664 962	1 332 481	1 332 481	10 659 850
Casper DO (65%)		H	1 732 225	5 196 676	1 732 225	866 113	866 113	6 928 902
Buffalo RAH	(10%)	H	173 222	519 668	173 222	86 611	86 611	692 890
Newcastle RAH	(75%)	H	1 299 169	3 897 507	1 299 169	649 584	649 584	5 196 677
Platte River AO	(5%)	H	259 834	779 501	259 834	129 917	129 917	1 039 335
Rawlins DO (18%)		H	479 693	1 439 080	479 693	239 846	239 846	1 918 773
Divide AO	(20%)	M	95 939	287 816	95 939	47 969	47 969	383 755
Lander RAH	(37%)	H	177 486	532 459	177 486	88 743	88 743	709 946
Medicine Bow AO	(43%)	L	206 268	618 804	206 268	103 134	103 134	825 072
Rock Springs DO (10%)		H	266 496	799 489	266 496	133 248	133 248	1 065 985
Big Sandy RAH	(22%)	M	58 629	175 888	58 629	29 314	29 314	234 517
Kimmerer RAH	(26%)	H	69 289	207 867	69 289	34 644	34 644	277 156
Pinedale RAH	(32%)	M	85 279	255 836	85 279	42 639	42 639	341 115
Salt Wells RAH	(20%)	H	53 299	159 858	53 299	26 650	26 650	213 197
Worland DO (7%)			186 547	559 642	186 547	93 274	93 274	746 190
Cody RAH	(60%)	M	111 928	335 785	111 928	55 964	55 964	447 714
Grass Creek AO	(22%)	L	41 040	123 121	41 040	20 520	20 520	164 162
Washakie AO	(18%)	L	33 578	100 736	33 578	16 789	16 789	134 314
~~TOTAL~~								

ALMRS DATA-HANDL VOLUME BY STATE FOR GRAPHICS

ADMINISTRATIVE STATE : ES

GRAPHIC FUNCTIONAL REQUIREMENT / FILE NAME		NODE FILE (000 CHARS)	NODE ATTRIBUTE FILE (000 CHARS)	ARC FILE (000 CHARS)	ARC ATTRIBUTE FILE (000 CHARS)	POLYGON FILE (000 CHARS)	POLYGON ATTRIBUTE FILE (000 CHARS)	QUADRAGLE FILE (000 CHARS)	TOTAL CHARS BY REQMT (000 CHARS)
		3 106 466	3 177 067.5	1 694 436	10 590 225	1 694 436	33 888 720	4077	54 155 428
ADD	10%	310 647	317 707	169 444	1 059 022	169 444	3 388 872	407.7	5 415 543
ASSEMBLE	30%	931 940	953 120	508 331	3 177 068	508 331	10 166 616	1223.1	16 246 628
CALCULATE	10%	310 647	317 707	169 444	1 059 022	169 444	3 388 872	407.7	5 415 543
CONVERSION	5%	155 323	158 853	84 722	529 511	84 722	1 694 436	203.8	2 707 771
DELETE	5%	155 323	158 853	84 722	529 511	84 722	1 694 436	203.8	2 707 771
EDIT	40%	1 242 586	1 270 827	677 774	4 236 090	677 774	13 555 488	1630.8	21 662 171

ALMRS DATA-HANDLING VOLUME [illegible] GRAPHICS BY SITE WITHIN EASTERN STATES

EASTERN STATES OFFICE	L	ADD (000 CHARS)	ASSEMBLE (000CHARS)	CALCULATE (000CHARS)	CONVERSION (000CHARS)	DELETE (000CHARS)	EDIT (000CHARS)
TOTALS		5 415 543	16 246 628	5415 543	2 707 771	2 707 771	21 662 171
Jackson DO (44%)	L	2 382 839	7 148 516	2 382 839	1 191 419	1 191 419	9 531 355
Public Land Srvy States Alabama, Arkansas Florida, Louisiana Mississippi (49%)		1 167 591	3502 773	1 167 591	583 795	583 795	4670 364
Non-PLS States Georgia, Kentucky North & South Carolina Tennessee, Virginia (51%)		1 215 248	3645 743	1 215 248	607 624	607 624	4 860 991
Milwaukee DO (56%)	D	3 032 704	9 098 112	3 032 704	1 516 352	1 516 352	12 130 816
Public Land Srvy States Illinois, Indiana Iowa, Michigan Minnesota, Missouri Ohio(70%), Wisconsin (69%)		2092 566	6 277 697	2 092 566	1 046 283	1 046 283	8 370 263
Non-PLS States Connecticut, Delaware Dist. of Col., Maine Maryland, Massachusetts N. Hampshire, N. Jersey New York, Ohio(30%) Pennsylvania, Rhode Is. Vermont, W. Virginia (31%)		940 138	2 820 415	940 138	470 069	470 069	3 760 553
~~TOTAL~~							

MODULE B
MANUAL

NEW ALMRS SYSTEM

MODULE B MANUAL

RECORDS WHICH ARE NOT TO BE AUTOMATED:

GENERAL

There are four main categories of land and mineral records that will not be automated: Case Files, Survey Plats, Control Document Indexes, and Reference Information. Some parts of the case file will be automated, but some case specific records cannot be automated. The other three types will be microfilmed. There is a possibility that retrieval and/or display of these microfilmed records could be automated.

SPECIFIC

A. CASE FILES

Some paper documents, such as legal instruments containing signatures, seals, affidavits, etc., and decisions, correspondence, or special stipulations affecting a specific location or case should remain a part of the case record. The information on other documents, such as accounting advices, rental payments, mail certification cards, future action suspense cards, some standard forms, general stipulations, etc., can be automated. That information can be queried as needed; therefore, the paper documents need not be created nor stored in the case file. The production of most of the remaining documents filed in the case record will be different from the current methods. For example, standard phrases commonly used in decisions or correspondence can be stored and manipulated to create a document. However, when a serial number and/or land description are inserted, that document becomes unique to a case, and a copy should be filed in the case record.

There are approximatedly 240,000 case files, excluding mining claims, with an average of 500 pages of material per file. The volume of case-related material can be reduced by 50% by storing some information on an electronic medium and by simply eliminating duplications and documents that are not pertinent to case processing. The storage requirement can be further reduced by placing the remaining case documents on microfilm and using data processing technology to index, retrieve, and display the microfilm images.

Utilization of case file will be reduced by approximately 10-30%. Most queries will be answered by automated sources. The case file will still be used for verification and case processing.

B. SURVEY PLATS

Plats of cadastral, mineral, and other surveys are not being automated as part of the new ALMRS. There are currently 428,200 plats and 6,205,000 pages of survey notes with information concerning the survey of lands. These records are being microfilmed. The original survey and notes are being retired to archives to be preserved. This project is ongoing with an estimated completion date for existing records of 1993. Approximately 800 new cadastral surveys and 600 mineral surveys

are being completed and accepted annually. The physical drafting of these plats may be automated to produce the graphic representation of the plats. However, current legal requirements dictate the production and maintenance of an original plat and a duplicate original plat. These productions will then be microfilmed and maintained for use by the government as well as the general public. Survey information is being automated as part of the legal land description data base. However, the plats and notes will continue to be used in a paper or microfilm form. There is a possibility that retrieval and/or display of the microfilm system could be automated to incorporate viewing of the microfilm information electronically.

C. CONTROL DOCUMENT INDEX (CDI) FILES

The Control Document Indexes consist of copies of patents and deeds that convey title to public lands to and from the United States and copies of documents that affect, or have affected, control of, or limit or restrict the availability of, right or title to or use of national resource lands. These documents include:

1. Patents
2. State Selections
3. Indemnity List
4. Conveyance Documents
5. Acts of Congress
6. Public Laws
7. Executive Orders
8. Proclamations
9. Public Land Orders
10. Others

The documents are microfilmed and mounted on aperture cards. There are currently 6,316,000 CDI documents in use in the BLM. There are no plans to automate these documents. However, the retrieval and/or display of these documents could be automated.

D. REFERENCE INFORMATION

The reference information contains records that were replaced by automation (e.g., Master Title Plat, Mineral Plat, Historical Indexes, etc.), but are still required for historical research and by the National Archives. The reference records consist of 35mm roll microfilm, microfiche, aperture cards, or a combination of all three. Reference to this information is limited to status research to a time prior to automation.

The 1,126,284 records that constitute the reference information can be placed on 2,252 rolls of microfilm requiring 42 cubic feet (4 cubic feet per state office) of storage space, or 187,714 microfice requiring 403 cubic feet (37 cubic feet per state office) of storage space. Most offices have microfilm readers and reader printers to view the microfilm. With the packing density offered by the microfilm or microfiche, each district and resource area could have complete statewide coverage. The National Archives will accept copies of the microfilm in place of the original record for retirement purposes. The indexing, retrieval, and display of this film can be automated.

IV. DATA AVAILABILITY, REQUIREMENTS & SECURITY

INTRODUCTION TO ALMRS ADP SECURITY REQUIREMENTS

The very basic conceptional design of the ALMRS system graphically identifies, through the use of special symbols, various accesses by government and non-government entities to access a variety of (to be developed) systems and related files.

From an ADP Security standpoint, one can only theorize the ADP Security implications. To date, the ADP Security implications are based solely on a memorandum from the previous ALMRS Project Manager dated June 18, 1984, (See attached memorandum). As stated in the memorandum, the information being collected has been labeled non-sensitive; therefore, I can only assume the entire ALMRS system, with the exception of BIA data, is non-sensitive. With that in mind, the first problem we should be concerned with, is the recommended re-definition of the legend symbols. To conform to universal terminology, I recommend the following:

△ - Read Permission Only
▲ - Read/Write Permissions
● - Read/Write Permissions (for selected data elements)

It is assumed that an in-depth analysis has been completed for each data element within each interfaced system and file to identify the applicable read, write, modify, and delete permissions. If this effort has not been undertaken, it should be accomplished during the systems analysis phase. Once the Systems Analyst has completed the analysis phase and the system is turned over to the programming staff, the programmer will be aware of how to build the necessary logic to protect those data elements which require certain restrictions.

ALMRS/BIA System Requirements

There has been considerable discussion regarding the protective measure needed to protect BIA data. We all agree that all BIA information must be protected.

A key factor is the construction and methods proposed to manipulate the data. If the system is designed to be used as a data base system and so structured, there are numerous ways the programmer may build in pre-determined security requirements. If the design requirements are for sequential batch processing, then we have a problem in building in security requirements. Due to my limited knowledge of ALMRS, I am basing the following on the system being designed for use in a data base system environment. The following are only recommended measures.

1. Build an entirely separate system independent of the standard ALMRS system files.
   Merits - Reduces the size of the standard ALMRS database.
   Allows tighter password controls.
   Problems- Redundant programming maintenance.
   Redundant processing (updates, reporting, etc.).

2. Allow BIA data to be interspersed with the standard ALMRS data.

Merits - Eliminates redundant programming maintenance.
Eliminates redundant processing (updates, reporting, etc.).

Problems- Increases the size of the standard ALMRS data base.
At a minimum a 1 character field will have to be established as part of each record that contains BIA data. This 1 character field identifies the data as being BIA data. Without seeing the record description, another field may be used to accomplish the same results. If this position is identified during the analysis phase, the programmer will build in the appropriate logic to protect the information base on pre-determined read, write, modify, and delete permissions.
During the analysis phase, it would behoove the group to study various methods to access sensitive BIA data. Several methods are available to limit access to selected records and/or selected data elements by selected individuals using current data base programming concepts. Recommend this aspect be discussed at length with the D-229 team.

Summary:
The overall conceptional design from an ADP Security standpoint is a very good start. But, I would like to reiterate, it is only a start. The systems analysis phase of the project is very critical, in so far as being able to identify and perform an in-depth analysis of each file, record, and data element to identify the protection required. If properly identified and documented, realistic protective measures may be built into the systems during the programming phase.

Future studies will surface changes in the conceptional design. This is normal.

/s/ Bobby G. Hooker

IN REPLY REFER TO
1265 (D-200)

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
DENVER SERVICE CENTER
DENVER FEDERAL CENTER, BUILDING 50
DENVER, COLORADO 80225

JUN 4 1984

Memorandum

To: D-150

Through: Service Center Director 6-4-84

From: Bureau ADP Security Officer

Subject: Review of the ALMRS Data Entry Contract

After reviewing the ALMRS Data Entry Contract it appears there is no problem in the area of ADP security other than clarification as to the sensitivity of the information. Although it appears that the information being supplied to the contractor is public information (non-sensitive), I would like to have written confirmation stating that the information is of a non-sensitive nature.

Recommendations:

question was raised by a prospective offeror on Amendment No. 005 (Page 1 of Questions and Answers):

The question was -

> Are oil and gas and other mineral permits and leases to be abstracted and coded?

The answer was -

> Oil and gas and other case permits and leases will not be abstracted by this contract.

Based on the future prospect of possibly modifying the awarded contract and/or negotiating a new contract for the purpose of accessing sensitive information such as oil and gas lease information, all contract personnel accessing such information will be required to have a Background Investigation performed prior to actually commencing the project. An Instruction Memorandum will be issued out of the Washington Office in the very near future which requires contracting officials to stipulate in all Information Systems support contractual documents the following:

> "Contractor must meet and comply with existing Departmental and Bureau ADP Security Regulations, in particular the Clearance and Suitability Investigative Requirements set forth in DM 441, Chapter 6."

Based on this memo being issued, this may be an opportune time to start planning for such requirements to be incorporated into future contracts. It is not the policy of the Department or Bureau to grant interim security clearances before investigative requirements for sensitive positions have been met.

The gathering of massive amounts of data such as the ALMRS project is very costly. As time goes on, private industry becomes increasingly aware of this fact, in addition to being aware that under the Freedom of Information Act, they have access to certain information by submitting a proper request, thereby capitalizing on a wealth of information. To accommodate such requests, a computer chargeback algorithm has been developed to provide the Bureau with nominal means of cost recovery. Depending on the amount and type of information requested, it could be very costly to the requestor, thereby possibly encouraging perpetrators to gain access to the data residing at the applicable facility. Based on the possibility of such perpetration, it would behoove the Project Office to work closely with the ADP Security Office in recommending measures to discourage perpetration, and protect our valuable data.

I appreciate the opportunity to review the contract and comment.

Bobby Hooker

WO (104) - Cason
WO (810)
WO (870)
Arizona - 950
New Mexico - 950
D-150
D-200
D-500

→ Bobby Hooker

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
DENVER SERVICE CENTER
DENVER FEDERAL CENTER, BUILDING 50
DENVER, COLORADO 80225

D-200

IN REPLY
REFER TO:
1260 (D-150)

JUN 18 1984

Memorandum

To: Bureau ADP Security Officer (D-200)

Through: Service Center Director DELMAR D. VAIL

From: ALMRS Project Manager

Subject: Review of the ALMRS Data Entry Contract

This memorandum is in response to your memorandum of June 4, 1984, subject as above. You requested written confirmation stating that the information to be collected by the contractor is non-sensitive in nature. I so certify.

I am not aware of the proposed Instruction Memorandum containing the security and clearance stipulation. If the memorandum is issued, we will comply with it in future contracts. It is highly doubtful that we would ever issue a contract for the collection of sensitive information, since the land and mineral records are public information. As such, they contain no sensitive information.

We may deal with proprietary or confidential information, as defined by the Bureau. We will ensure that adequate safeguards are implemented to protect the integrity of such data.

Marvin LeNoue

cc:
WO (104) - 1
WO (810) - 1
SD, Arizona
SD, New Mexico
D-200
D-500

Definitions of ADP security terms will be established, and the list of ADP security requirements, both for internal and external data files, will be addressed in the future.

ALMRS DATA VALIDITY REQUIREMENTS

The hardware and communications environment of the ALMRS system will need a means of logging various kinds and types of messages that state or define the level and severity of breakdown, and be able to reconfigure the hardware and/or communication environment from the last recorded system-state.

To address system data validity, one needs to define what constitutes preventive and corrective maintenance for the environments identified above. For example, the system-state needs to be recorded every 30 seconds so that we can bring up the system from a level where not much data will be lost. Once that system is "up," then validity data checks for the hardware and communications need to be done so that we know where we are and determine the system-state is correct.

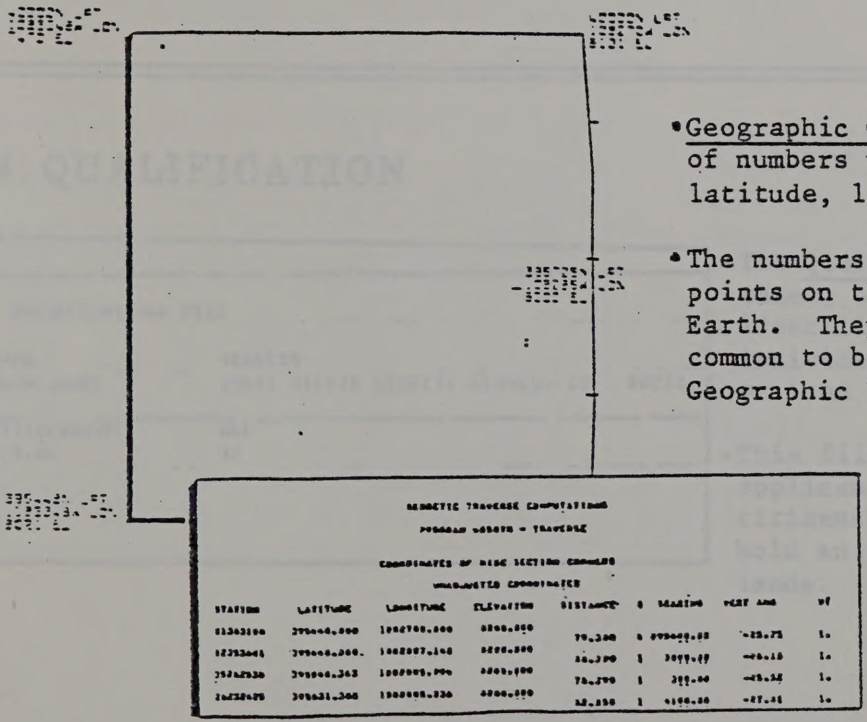
V. NARRATIVE ON INTERFACE USER(s)

II. INTERFACED FILES (BLM)

II. INTERFACED FILES (BLM)

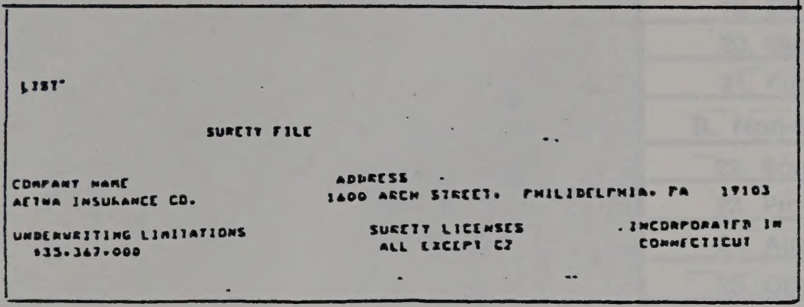
10. Geographic Coordinates
11. Resource Data
12. Bond
13. Surety
14. Qualification
15. Master Name

10. GEOGRAPHIC COORDINATES



- Geographic Coordinates are a series of numbers which represent latitude, longitude, and elevation.
- The numbers identify a point or points on the surface of the Earth. They will be data elements common to both ALMRS and the Geographic Information System.

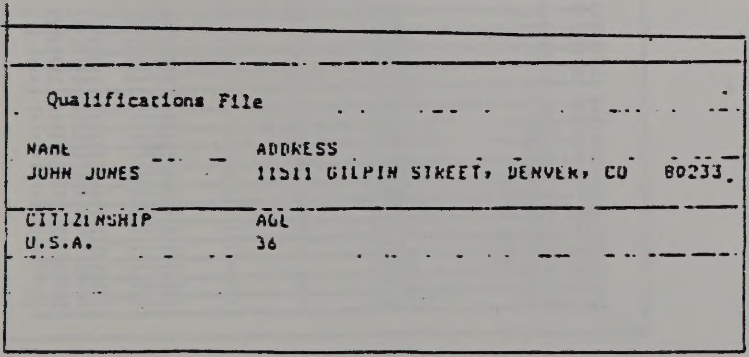
13. SURETY FILE



```
LIST

                 SURETY FILE

COMPANY NAME                       ADDRESS
AETNA INSURANCE CO.              1600 ARCH STREET,  PHILIDELPHIA, PA   19103

UNDERWRITING LIMITATIONS             SURETY LICENSES          INCORPORATED IN
  $35,367,000                         ALL EXCEPT CZ            CONNECTICUT
```

- The Surety File contains all currently approved companies. It lists states in which the companies are issuing bonds and includes name, address, identification number, interest relationship, and significant dates.
- This file cross references the bond file to ensure that the surety company listed on the bond is approved and licensed.

14. QUALIFICATION



```
  Qualifications File

 NAME                 ADDRESS
 JOHN JONES           11511 GILPIN STREET, DENVER, CO   80233

 CITIZENSHIP          AGE
 U.S.A.               36
```

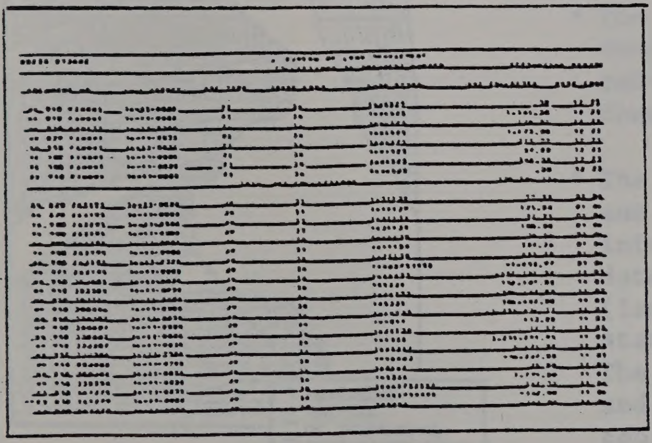
- The Qualification File contains names, addresses, and identification numbers of individuals that qualify for lease or land actions.
- This file determines if an applicant is qualified by age, citizenship, and other factors to hold an interest in or use federal lands.

III. INTERFACED SYSTEM

III. INTERFACED SYSTEMS
A. BLM
16. Financial Management System
17. Minerals System I
18. Solid Leasable Mineral System
19. Simultaneous Oil & Gas Leasing System
20. Geographic Information System
21. Public Land Survey System
B. Non-BLM
22. Bonus & Rental Accounting Support System
23. Production Accounting & Auditing System
24. Auditing & Financial System
25. Other

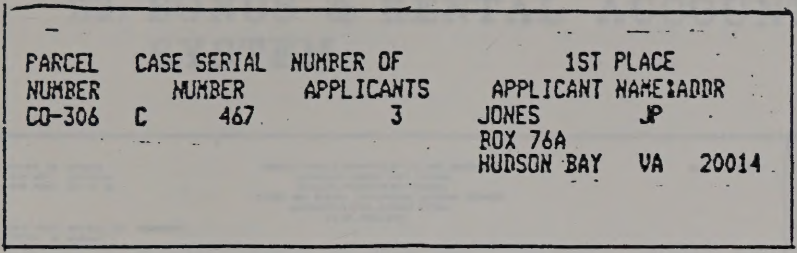
A. BLM

16. FINANCIAL MANAGEMENT SYSTEM



- The Financial Management System tracks all collections, payments, and expenditures made in the Bureau, including lease billing.
- The system will alleviate the need for multiple entries of data on receipts for cases; it electronically transmits journal vouchers at the post-adjudication stage.

19. SIMULTANEOUS OIL & GAS LEASING SYSTEM

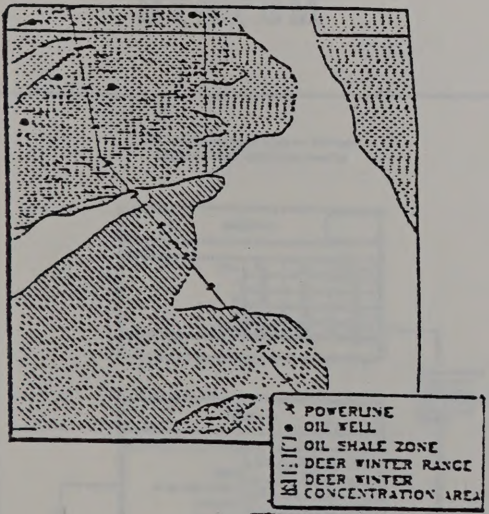


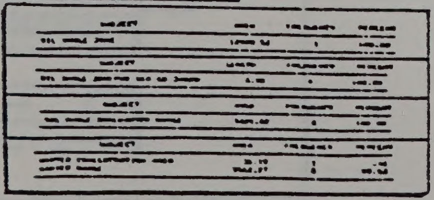
```
PARCEL   CASE SERIAL  NUMBER OF            1ST PLACE
NUMBER     NUMBER     APPLICANTS    APPLICANT NAME&ADDR
CO-306   C      467           3     JONES          JP
                                    BOX 76A
                                    HUDSON BAY   VA   20014
```

- The Simultaneous Oil and Gas Leasing System offers Federal oil and gas leases under simultaneous drawings.
- The system processes applications for these leases under simultaneous drawing procedures.

20. GEOGRAPHIC INFORMATION SYSTEM

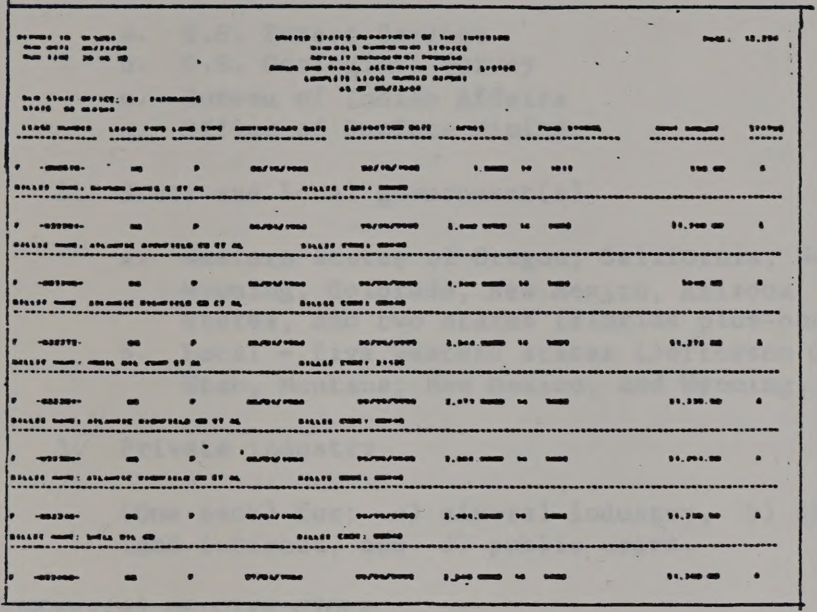
- The Geographic Information System consists of geographically referenced resource data from thematic maps and other sources.
- The system will retrieve, analyze, and synthesize existing geographic information, including resource data bases and ALMRS data bases (land description, ownership and status), into maps and reports. The common connector between GIS and ALMRS will be the geographic coordinate data base (x, y, and z).





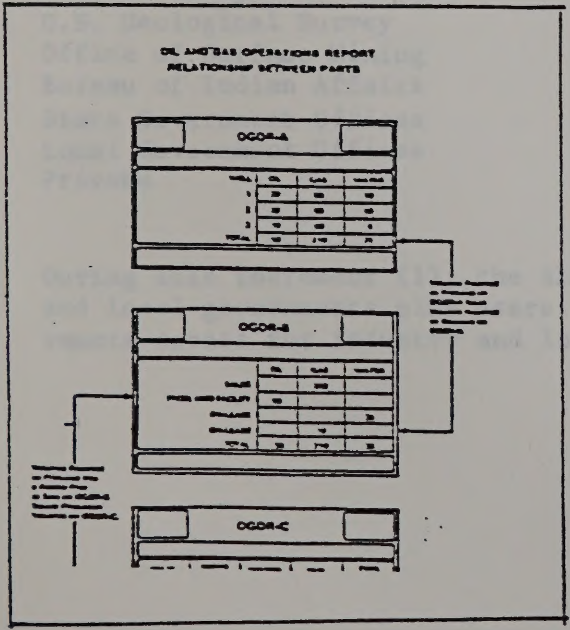
B. NON-BLM

22. BONUS & RENTAL ACCOUNTING SUPPORT SYSTEM



- The Bonus and Rental Accounting Support System processes checks for the collection of bonuses and rentals, and disburses the funds collected.
- The system provides a monthly billing cycle and updates to lease balances; tracks payment or non-payment of bonus and rent; and maintains BLM lease records as to the standing of payments.

23. PRODUCTION ACCOUNTING & AUDITING SYSTEM



- The Production Accounting and Auditing System has manual and automated processes for minerals production reporting, accounting, lease management, and auditing.
- The system tracks and maintains production reports by lease, unit, communitization agreement, and facility operator on all Federal and Native American mineral lands.

FUTURE EXTERNAL ALMRS USERS

IDENTIFICATION OF USERS: (See Appendix for specific locations)

The general categories of users analyzed include:

1. Other federal agencies
    - a. U.S. Forest Service
    - b. U.S. Geological Survey
    - c. Bureau of Indian Affairs
    - c. Office of Surface Mining
2. State and local government(s)
    - a. Western states of Oregon, California, Nevada, Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Washington, Eastern States, and two states (Florida plus one)
    - b. Local - five western states (Jefferson County, Colorado), etc., Utah, Montana, New Mexico, and Wyoming.
3. Private industry

    (One each) for: a) mineral industry, b) title companies, c) public land interest, and d) public users.

CONCEPT(s) OF LIFE CYCLE

Increment 1 - Start plus five (5) years

Users	Sites
U.S. Forest Service Region	10
Mineral Management Service	5
U.S. Geological Survey	4
Office of Surface Mining	4
Bureau of Indian Affairs	8
State Government Offices	12
Local Government Offices	5
Private	4 - 8
	-50 - range

During this increment (1), the ALMRS system would be prototyped for state and local governments plus users. In addition, it would be prototyped for remote access for industry and local title companies.

Increment 2 (future) - Start plus eight (8) years

Users	Sites
U.S. Forest Service	122
Add Forest Supervisor offices and high utilization ranger districts	300
Office of Surface Mining	20
Add Field and Area offices	
Bureau of Indian Affairs	50
Add agency offices (high utilization)	
Local Government Offices	100
Private Users	300
(Principally industry and land offices, also large natural resource informations users)	
Total	800 - range

This increment will include implementation to the majority of U.S. Forest Service locations, Office of Surface Mining, and the Bureau of Indian Affairs. In addition, it will provide expansion to local government offices and extensive use by the private user.

EXTERNAL USERS

BUREAU OF LAND MANAGEMENT/FOREST SERVICE INTERCHANGE

The recent proposal for interchange of land management responsibilities between the Bureau of Land Management (BLM) and the Forest Service (FS) has added an element of uncertainty and complexity to both the definition of system requirements and the subsequent alternatives analysis. It is quite possible that a decision will be made to use a single automated land and mineral information system to support the needs of both agencies.

There are at least three major variables that would affect the system requirements and analysis:

1. Data - type and volume
2. Information stations/organizational locations
3. Current equipment
    a. Hardware
    b. Software
    c. Telecommunications

Each of these variables and their potential impact on the analysis are discussed below:

DATA

There is little or no difference in the data elements that are used by the BLM and the Forest Service in managing land and mineral records. For purposes of this analysis, the Bureau's Data Element Dictionary may be viewed as a common denominator.

Presently, the BLM manages the leasing process and maintains all mineral records on Forest Service lands. The Forest Service, however, maintains its own surface status records on their 191 million acres in a set of automated files. This system uses the basic data structure of BLM's case recordation data and ALMRS and should be easily convertible if a decision is made to have a single data base. We estimate that this additional data represents a 10% increase in the total case processing and data storage requirement.

DATA INFORMATION STATIONS

The relative organizational structure of the BLM and the Forest Service is as follows:

BLM			FOREST SERVICE	
1		Headquarters		1
12	State Offices		Regional Offices	9
55	District Offices		Forest Supervisors	122
155	Resource Areas		Ranger Districts	651
223*		TOTAL		783*

*Sixty-four of these offices are duplicative locations that might be co-located under the interchange proposal.

It is not entirely clear if the Forest Service would desire ALMRS data to be available at the Ranger District level. If they do, a substantial increase in the number of total information stations (300-400%) might be required. However, if they transact most of their land and mineral activity at the Forest Supervisor level, the total increase in information stations may be minimal (25-50%), depending on the amount of BLM/FS co-location that occurs as a result to the merging of district level offices.

HARDWARE

The Forest Service is in the process of installing...

(see Figure 2)

A list of equipment at various stations is attached; see ~~Append~~ix. (Figure 2)

October 17, 1983

Forest Service Distributed Processing

To improve the productivity of our professional and clerical staff, the Forest Service has been moving toward a distributed processing enviornment. This distributed processing project will result in acquiring state of the art technology on a Service-wide basis. This means that local information processing resources will be acquired to complement the large USDA computing center at Fort Collins, Colorado.

The approach we have taken has been to integrate word processing, data processing, and telecommunications. The systems being acquired will accomplish our word processing, data entry and edit, data base management, electronic mail, and local data processing workload. These systems will: (1) allow Forest Supervisors to manage their data and information locally, (2) provide timely direction to District Offices, (3) exchange data and information with Regional Offices, (4) increase productivity of the workforce with no additonal ceilings, and (5) allow the Forest Service to be more responsive to requests for information from outside the Agency.

We have conducted several pilot studies and analyses which have shown that increased productivity can be accomplished through the use of state of the art technology. In the Pacific Southwest Region, our analysis has shown a net present value benefit of approximately $2.8 million dollars for a year of operation. In the Pacific Northwest Region, our studies have shown a net present value benefit of approximately $235,000 for a year of operaion due to the implementation of data entry and edit equipment alone. This is in addition to the incresed amount of time professionals now spend in the field instead of in the office.

The specifications for the systems were advertised on March 1, 1982, and prospective vendors were asked to submit proposals. The closing date for the proposals was August 16, 1982. After extensive evaluation and testing of proposed systems, a contract was awarded on July 8, 1983, to Data General Corporation. We will install approximately 920 systems throughout the Forest Service over the next 4 years. This will allow us to achieve maximum productivity benefits in the shortest amout of time commensurate with our capabilities to implement and manage the technologhy being acquired.

Figure 2

The Forest Service was mandated by Congress to manage, protect and utilize our Nation's resources of forests and rangeland. Through this congressional charter, the Service must assume a leadership role, not only in guiding the mission function, but also to support and administer to the operational needs of such enormous tasks.

In order to properly fulfill the mission of the Forest Service, it is necessary to employ the most modern techniques available today. These resources are severely limited at this time and an examination of the current and potential benefits to be derived from the use of this technology prompts the following discussion.

Realizing that the demands on the Forest Service have been growing over the past several decades as Congress and the private sector have required increased productivity of renewable resources, studies have been conducted to determine the level of technological support needed to meet these requirements. The studies, while prepared at various intervals all have the same theme running through them, namely: provide for timely response to the requirements being placed on the Agency, and provide for the most cost effective methods and efficient techniques to meet the challenges presented.

Three of the major studies over the last decade have addressed our requirements for the most efficient and cost effective way to provide the tools for meeting the Forest Service information processing needs. First, the BLUEPRINT FOR ACTION-1971, had as its purpose and/or objective the evaluation and planning of the present and future use of computers in the Forest Service. The Agency had reached a point where demands for services and faster decisions were increasing at a rate that could not be met using manual processes. The objectives were to define the requirements for computing, and to develop and implement a plan for the effective and efficient use of this technology.

Second, the SYSTEMS DEVELOPMENT ACTION PLANNING TEAM REPORT-1975, had as its purpose and/or objective studying a host of problems that were affecting the Forest Service's ability to meet its management targets. The areas that were identified as being critical and needing prompt attention were: organization, management direction in systems development, and management involvement. An action plan was developed which provided recommended actions and time frames for accomplishment.

In both of these studies the results were similar in that they recommended the following:

- * Strengthen the management of system activities.
- * Involve all line officers in this management role.

* Define the roles and responsibilities of systems management.

* Determine the Service-wide data processing requirements.

* Establish a training program for the users so as to insure effective use of this tool.

* Provide compatible processing capability throughout by implementing a hierarchical computing network.

The Chief of the Forest Service accepted and approved these recommendations, however, due to a lack of available technology, budgets and other resources, the recommendations were never fully implemented.

The third study, NATIONAL FACILITY NEEDS ANALYSIS-1980, (updated June 1981) using historical data gathered from statistical use reports provided by the Fort Collins Computer Center, workload analysis techniques and procedures, interviews with users, and reviewing previous studies, again addressed the information processing requirements of the Agency. This study had as its objective the assessment of the information processing support needed by the National Forest System portion of the Forest Service.

The study produced three (3) alternatives which the Agency could persue:

1. Totally centralized facilities - essentially status quo.

2. Distributed by Agency functional area - a network of dedicated systems for specific applications.

3. Distributed processing - local intelligence to perform data edit/entry, word processing, and local processing linked via telecommunications to large central computers.

The analysis of the alternatives (Section III of the National Facility Needs Analysis-1980) shows that number 3 above most closely meets the current and projected needs. The rationale behind chosing this alternative is that it provides: 1) the greatest improvement in productivity, 2) the most flexibility to the local line officer to set priorities, 3) maintains control of the information processing resources, 4) integrates word processing, data processing and data base management activities.

It is the position of the Forest Service that not to take advantage of the technology available today will adversely affect the Forest Service's ability to meet the challenge of its chartered mission in the next 6 to 10 years. Historical data indicates that the predicted growth rate is typically on the conservative side. The current capability available to the Forest Service is not sufficient for meeting the Forest Service's mission objectives. The affects of not providing this technology will prohibit the Forest Service from achieving increased productivity, and improving service and response to the public and Congress.

In addition, many initiatives may not be met and each year the difficulty of achieving these.objectives would increase.

As stated earlier, the technology resources talked about are presently very limited. It is also known that the current processing capabilities are less than adequate for todays requirements. With the approval of the Chief of the Forest Service, the Agency has moved forward developing a set of functional specifications while addressing the capabilities that will be needed to satisfy the information processing needs. These requirements may be satisfied by either a service organization concept or by acquiring additional in-house equipment. The processes have been defined that are necessary to accomplish the tasks associated with an undertaking of this magnitude.

The strategy, which has been developed to assure that the Forest Service has the capabilities necessary to meet it needs, is in line with OMB Circulars A-76 and A-109. The acquisition of commerical services to provide for Forest Service's needs is fully supported. Fulfillment of Forest Service's needs will be handled through a competitive solicitation. The requirements for data processing, word processing, electronic mail and data entry and edit have been defined in Section II of the National Facilities Needs Analysis.

Since the service or systems to be acquired will be utilized by subject matter specialists and technicians, the work to be performed is a government function as defined in OMB Circular A-76 paragraph 5.F.(1) and as such cannot be effectively contracted out. Implementation of distributed processing throughout the Forest Service will not require any additional personnel. This service or equipment will be used as tools by the subject matter specialists and technicians in the accomplishment of their jobs in fulfilling Forest Service mission requirements. The subject matter specialists and technicians will have the ability to enter data directly in to the system thus providing current up to date information for use in decisionmaking. Also, by being able to enter information directly into the system, certain transposition errors should be eliminated that are now inevitable. Application programming will be achieved by present personnel in the Regions, Forests, and Washington Office.

There will be no need for additional space to implement distributed processing in the Forest Service. A large number of current text processing equipment will be replaced by these systems. Therefore, the current facilities will be used with minimal site preparation. In addition, since the space released by the removal of equipment such as typewriters, facsimile machine, etc., will be minimal, in most sites, no cost savings regarding space could be determined. The above mentioned factors rule out the majority of activities that could be contracted by the Forest Service to the private sector. It is the intent of the Forest Service that the operations capabilities of the systems be turnkey-user friendly. By establishing user friendly systems the requirement for operations personnel is reduced to a bare minimum most of which will be at the Forest, Region, and Washington Office. A complete A-76 Cost Comparison study will be conducted while the solicitation is being circulated to industry for their proposals. Based on the comparison results between contracting our for the services or doing them in-house, the Forest Service will make its decision using the guidelines contained in OMB Circular A-76.

United States
Department of
Agriculture

Office of
the Secretary

Office of
Operations and
Finance

Washington, D.C.
20250

General Services Administration
(CPS)
Washington, D.C. 20405

Gentlemen:

The Department of Agriculture on behalf of one of its agencies, the Forest Service, requests a delegation of procurement authority to acquire information processing capabilities. These capabilities are fully detailed in the enclosed proposed solicitation document.

To comply with the Federal Procurement Regulations 1-4.1105, Request for Procurement Action, the following statements and enclosures are provided as the Agency Procurement Request.

1. Budget Estimate and Number of Systems

   The specifications are functionally, rather than technically described. Therefore, the precise dollar value of the vendors' responses are not known. Our best estimate for the Forest Service is approximately $75,000,000 (stated in 1981 dollars) over the systems life and is in the fall 1981 submission of the A-11, Exhibit 43. These funds are implicit in nature. We are requesting a DPA to acquire approximately 1,450 firm and optional systems for the Forest Service and an additional 500 optional systems for other USDA agencies.

2. Systems Life

   We anticipate total systems life to be 12 years. All systems will be ordered during the first 6 years of the contract period. Maintenance and other non-equipment items may be needed throughout the full 12-year contract period.

3. Site Locations

   Locations of facilities are contained in the RFP as Attachment V, Schedule of Items.

4. Solicitation Release

   The proposed solicitation is expected to be released to the industry in the 1st quarter of Fiscal Year 1982.

Office of Operations and Finance is an
Equal Opportunity Employer

5. Unique Requirements

This solicitation will not require unique software, maintenance or support requirements.

6. Site Construction/Modification

The acquisition of this equipment/service will require some site modifications by GSA at some sites. We expect these modifications to be minimal. Information on these modifications will be transmitted to the appropriate GSA office at least six (6) months in advance of the proposed installation date.

7. Statement of Need

The Forest Service conducted a Facility Needs Analysis in 1980, updated in June 1981. This study, which is Attachment VII to the proposed RFP, provides the basis for requesting the information processing capabilities outlined in the proposed RFP.

8. Telecommunications

USDA has completed a Department-wide telecommunication study and is in the process of acquiring a Departmental telecommunication service. The Forest Service has agreed to be a lead Agency in the use of this service.

9. Privacy Act of 1974

Equipment or services identified by this request may be used to operate a system of records on individuals to accomplish an Agency function. All applicable provisions of the Privacy Act have been complied with, including submitting a report of new systems to Congress and OMB as required.

10. Primary Program

The primary programs to be supported by this equipment or service are as follows:

a. Renewable Resource Management and Utilization.

To provide for the management and utilization of the timber, wildlife and fish, range, recreation, watershed and soil resources on National Forest Systems lands.

b. Land and Resource Protection.

To provide for the protection and/or maintenance of National Forest System users, resources, lands, and to acquire through exchange those lands within National Forest boundaries that meet the criteria for inclusion in the National Forest System.

11. Security

The Forest Service is in compliance with OMB Circular A-71 with respect to computer and application security. Security is an integral part of the internal Agency review process and is screened on a continuing basis. All computer applications are reviewed for security requirements in the feasibility stage as well as all other stages of development and periodically throughout the applications life.

12. Enclosures

Enclosures being submitted in addition to the above statements include:

a. Proposed solicitation (RFP-functional specifications detailing the Forest Service requirements) with attachments.

b. Proposed Live Test Demonstration Manual.

c. Accompanying statements for OMB Circulars A-76, A-108, and A-109.

A fully competitive procurement is planned for this project. To the maximum extent possible, the requirements have been functionally described. Based on this, the specifications and benchmark may not require specific devices or communications links except in those instances where it is a specific requirement.

Questions concerning this request can be directed to Louis Perrygo in our Procurement Division on 447-7527 or to Ed Pritchard in the Forest Service, Procurement Management Staff, on 235-8165.

ROBERT A. WELCH
Chief
Procurement Division

cc: Louis Perrygo, Procurement, O&F
Ed Pritchard, AS, FS

Enclosures

FS:CT&T:SLHaggard:dmf: 11/4/81 (235-8153)

USDA CHECKLIST FOR PROCUREMENT

AGENCY Forest Service-WO-CT&T

USE CONTROL #

ITEM Forest Level Information Processing Systems

FUNDING (FY/or other) 1982-86

[illegible]	[illegible]	[illegible]	[illegible]
INITIAL			
FINAL			

PURPOSE: To implement Distributed Processing throughout the Forest Service

CATEGORY:

- X Proprietary/Commercial Software
- ___ Software Development
- X ADP Equipment
- X WP Equipment
- ___ Computer Service
- ___ ADP Telecommunications
- X Maintenance Serv.
- ___ Supplies
- ___ Other (Specify)

SPECIAL TECHNICAL APPROVAL

- ___ USDA Not Required
- X USDA Required
- Requested on 7/23/81
- Granted on ___

SPECIAL DELEGATION OF PROCUREMENT AUTHORITY:

- ___ USDA Not Required
- X USDA Required
- Requested on 7/23/81
- Granted on ___

- ___ GSA Not Required
- X GSA Required
- Requested on ___
- Granted on ___

ACQUISITION:

- ___ Sole Source
- X Competitive
- ___ GSA Schedule
- ___ Existing Contracts
- ___ Interagency Agreement
- ___ Other (Specify)

OWNERSHIP:

- ___ Lease
- ___ Lease w/purchase option
- ___ Lease to ownership
- ___ Purchase
- X Other (Specify) as specified in contract

TYPE:

- X Initial Procurement (one-time)
- ___ Phased in (If so, specify status of phase and outline all phases in comments)
- ___ Addition to existing equipment/system
  - ___ Lease renewal
  - ___ Upgrade
  - ___ Change of configuration
  - ___ Other (Specify)
- ___ Continuation of lease/rental
- ___ Maintenance Contract

FINANCING:

- Lease ___
- Purchase ___
- Systems Life Costs $75,000,000
- Options ___

STATEMENT OF COMPATABILITY:

Will ensure the compatability of hardware and software throughout the Forest Service and will provide for telecommunication access to all USDA computer centers.

COMMENTS: Briefing was given to Task Force on October 13, 1981.

A-108 Statement

The Privacy Act of 1974 will be fully considered in the Forest Level Information Processing System procurement. All applications currently being processed by the Agency are in compliance with OMB Circular A-108, and the introduction of distributed processing project will not change this policy. Limited access to records by only those who need to know is assured through the program development process and is augmented through hardware and physical site security measures.

Introduction of distributed processing, new equipment, etc., does not increase the risk of unauthorized access, as the policy on management of records stated in the Forest Service Manual 6200, Chapter 6270 covering the Freedom of Information Act and the Privacy Act of 1974 must be followed. Privacy issues are dealt with in the initial phases of program development, and reviews are made throughout the development process to determine the measures to be taken to implement safeguards. If the application being developed contains privacy information a public notice is prepared and forwarded for publication in the Federal Register sixty (60) days before the system is implemented.

Currently the Forest Service has forty-eight (48) systems of records. Implementation of distributed processing will not change these systems of records nor will it establish new systems. The location of a system of records may be changed or a manual system of records may be automated. If this occurs a public notice will be issued stating the proposed modification. The current Forest Service policy will assure that any new systems developed will, through our Systems Management Process, be screened for privacy issues. Compliance will be monitored through a periodic review of each site. These reviews are part of the normal Agency management process of managing a highly distributed organization, both in terms of physical locations and delegated line authority, and has been used successfully throughout the organization's 75 year history.

A-109 STATEMENT

Through a recent analysis--National Facilities Needs Analysis, 1980--the Chief of the Forest Service determined that increased Agency information processing capabilities will be required to meet the increased information demands of conducting business. In determining this need both current as well as projected needs were considered. After analyzing several alternatives, management selected an approach that will best satisfy the identified requirements.

Because of (1) the size and complexity of the intended procurement, (2) the need for effective management, and (3) an organized process for acquiring these capabilities, the Forest Service has established a procurement plan. This plan closely adheres to the guidelines in the OMB Circular, A-109. It provides for milestones, management reports and monitoring throughout the acquisition process. The following outlines the plan:

- A team, designated as the Forest Service Distributed Information Processing Team, has been organized to carry out this project. This team reports to a steering committee which is headed by the Agency Senior ADP Manager. Members of the team include specialists in the areas of hardware, software, office automation, application development, telecommunications, and contracting. Other expertise will be detailed to the team as necessary to accomplish required tasks. The team has the responsibility to obtain the capabilities identified in the National Facilities Needs Analysis. This includes: (1) the development of functional specifications, (2) actions to ensure full competition, (3) development of evaluation criteria and procedures, (4) evaluation of bids, and (5) implementation of resulting contract. The team will also play a major role in identifying and addressing the managerial and sociological issues surrounding the implementation of these capabilities.

- The mission analysis and need statement has been addressed in the National Facilities Needs Analysis, 1981.

- The acquisition strategy developed by the Team is presented in a Schedule of Tasks where assignments, due dates, task outlines, are listed. This schedule includes such items as solicitation development, procurement request, evaluation criteria and procedures development, solicitation advertisement, training plan, implementation strategies, contract award, etc.

- A pre-release of the functional specifications describing the requirements was sent to the industry for review and comment. Responses were received and evaluated, adjustments were made where necessary to maximize competition as well as meet Forest Service requirements.

653-5215

October 28, 1983

System Priorities

Nat'l Seq #	Unit	Unit Seq #	Location	Size	Ship Date (Week Ending)
1	WO	1	Rosslyn	4	Delivered
2	R1	1	RO	8	Delivered
3	PSW	1	Headquarters	8	Delivered
4	R9	1	RO	8	Dec. 9, 1983
5	R6	1	RO	8	Dec. 9, 1983
6	WO	2	Rosslyn	8	Dec. 9, 1983
7	R3	1	RO	8	Dec. 9, 1983
8	R2	1	RO	8	Dec. 9, 1983
9	R8	1	RO	8	Dec. 9, 1983
10	SE	1	Headquarters	8	Dec. 16, 1983
11	R10	1	RO	8	Dec. 16, 1983
12	R4	1	RO	8	Dec. 16, 1983
13	R5	1	RO	8	Dec. 16, 1983
14	NE	1	Headquarters	8	Dec. 16, 1983
15	FCCC	1	Fort Collins CO	8	Dec. 16, 1983
16	R6	2	Willamette NF	8	Dec. 16, 1983
17	R1	2	Idaho Panhandle NF	8	Dec. 24, 1983
18	R1	3	Kootenai NF	8	Dec. 24, 1983
19	R9	2	White Mountain NF	4	Dec. 24, 1983
20	R9	3	Mark Twain NF	8	Dec. 24, 1983
21	R9	4	Superior NF	4	Dec. 24, 1983
22	R9	5	Chippewa NF	4	Dec. 24, 1983
23	R9	6	Chequamegon NF	4	Dec. 24, 1983
24	WO	3	South Building	8	Dec. 24, 1983
25	R6	3	Malheur NF	8	Dec. 30, 1983
26	R6	4	Umatilla NF	4	Dec. 30, 1983
27	R6	5	Umpqua NF	4	Dec. 30, 1983
28	R6	6	Wallowa-Whitman NF	8	Dec. 30, 1983
29	R3	2	Apache-Sitegreaves NF	4	Dec. 30, 1983
30	R3	3	Lincoln NF	4	Dec. 30, 1983
31	R2	2	Rio Grande NF	4	Jan. 6, 1984
32	R2	3	Black Hills NF	4	Jan. 6, 1984
33	R8	2	NF-North Carolina	4	Jan. 6, 1984
34	R8	3	NF-Florida	4	Jan. 6, 1984
35	R8	4	NF-Mississippi	4	Jan. 6, 1984
36	GSC	1	Geometronics	4	Jan. 6, 1984
37	R10	2	Tongass NF-Chatham Area	4	Jan. 6, 1984
38	R4	2	Boise NF	8	Jan. 6, 1984

39	R4	3	Payette NF	4	Jan. 13, 1984
40	R5	2	San Bernadino NF	4	Jan. 13, 1984
41	R5	3	El Dorado NF	4	Jan. 13, 1984
42	SO	1	Headquarters	4	Jan. 13, 1984
43	R5	13	Big Bear RD	4	Jan. 13, 1984
44	R5	11	South Zone, Riverside	4	Jan. 13, 1984
45	R5	12	Arrowhead RD	4	Jan. 13, 1984
46	R1	4	Lolo NF	8	Jan. 13, 1984
47	R1	5	Custer NF	4	Jan. 20, 1984
48	R9	7	Nicolet NF	4	Jan. 20, 1984
49	R6	7	Deschutes NF	4	Jan. 20, 1984
50	R6	8	Siuslaw NF	4	Jan. 20, 1984
51	R3	4	Coconino NF	4	Jan. 20, 1984
52	R2	4	Pike-San Isabel NF	4	Jan. 20, 1984
53	R8	5	Ouachita NF	4	Jan. 20, 1984
54	R10	3	PNW-Juneau	4	Jan. 20, 1984
55	R4	4	Targhee NF	4	Jan. 27, 1984
56	R5	10	San Bernadino NF	4	Jan. 27, 1984
57	SE	2	GA. Fire Lab	4	Jan. 27, 1984
58	R1	6	Nezperce NF	8	Jan. 27, 1984
59	R1	7	Clearwater NF	8	Jan. 27, 1984
60	R1	8	Flathead NF	8	Jan. 27, 1984
61	R1	9	Gallatin NF	4	Jan. 27, 1984
62	R1	10	Bitterroot NF	4	Jan. 27, 1984
63	R9	8	Ottawa NF	4	Feb. 3, 1984
64	R9	9	Hiawatha NF	4	Feb. 3, 1984
65	R9	10	Allegheny NF	4	Feb. 3, 1984
66	R9	11	Monongahela NF	4	Feb. 3, 1984
67	R9	12	Green Mountain NF	4	Feb. 3, 1984
68	R6	9	Siskiyou NF	4	Feb. 3, 1984
69	R6	10	Bear Valley RD	4	Feb. 3, 1984
70	R6	11	Mt. Hood NF	4	Feb. 3, 1984
71	R6	12	Okanogan NF	4	Feb. 10, 1984
72	R6	13	Wenatchee NF	4	Feb. 10, 1984
73	R2	5	Arapaho-Roosevelt NF	4	Feb. 10, 1984
74	R2	6	White River NF	4	Feb. 10, 1984
75	R2	7	San Juan NF	4	Feb. 10, 1984
76	R8	6	Ozark-St. Francis NF	4	Feb. 10, 1984

77	R8	7	NF's of Texas	4	Feb. 17, 1984
78	R8	8	Jefferson NF	4	Feb. 17, 1984
79	SE	3	Forestry Sci Lab-AthensGA	4	Feb. 17, 1984
80	R10	4	Juneau RD	4	Feb. 17, 1984
81	R4	5	Dixie NF	4	Feb. 17, 1984
82	R4	6	Toiyabe NF	4	Feb. 17, 1984
83	R5	14	Cajon RD	4	Feb. 17, 1984
84	R5	15	San Gorgonio RD	4	Feb. 17, 1984
85	R5	16	Eldorado NF	4	Feb. 24, 1984
86	R5	17	Placerville Nursery	4	Feb. 24, 1984
87	R5	18	Amador RD	4	Feb. 24, 1984
88	R5	19	Georgetown RD	4	Feb. 24, 1984
89	R1	11	Helena NF	4	Feb. 24, 1984
90	R1	12	Beaverhead NF	4	Feb. 24, 1984
91	R6	14	Ochoco NF	4	Feb. 24, 1984
92	R4	7	Mountain Home RD	4	Feb. 24, 1984
93	R1	13	Lewis & Clark NF	4	March 2, 1984
94	R1	14	Deerlodge NF	4	March 2, 1984
95	R1	15	Anaconda CCC	4	March 2, 1984
96	R1	16	Aerial Fire Depot	4	March 2, 1984
97	R1	17	Fernan RD	4	March 2, 1984
98	R9	13	Wayne Hoosier NF	4	March 2, 1984
99	R9	14	Shawnee NF	4	March 9, 1984
100	R9	15	Huron Manistee NF	4	March 9, 1984
101	R9	16	Fredericktown RD	4	March 9, 1984
102	R9	17	Houston RD	4	March 9, 1984
103	R6	15	Winema NF	4	March 9, 1984
104	R6	16	Mt. Baker/Snoqualmie NF	4	March 9, 1984
105	R6	17	Mt. Adams RD	4	March 16, 1984
106	R6	18	Gifford-Pinchot NF	8	March 16, 1984
107	R6	19	Packwood RD	4	March 16, 1984
108	R2	8	Grand Mesa-Uncompahgre NF	4	March 16, 1984
109	R2	9	Shoshone NF	4	March 16, 1984
110	R2	10	Medicine Bow NF	4	March 16, 1984
111	R8	9	Kisatchie NF	4	March 23, 1984
112	R8	10	NF's of Alabama	4	March 23, 1984
113	R8	11	Cherokee NF	4	March 23, 1984
114	R8	12	Chattachoochee/Oconee NF	4	March 23, 1984
115	R4	8	Emmett RD	4	March 23, 1984
116	R4	9	Boise RD	4	March 23, 1984

117	R5	20	Pacific RD	4	March 30, 1984
118	R5	21	Placerville RD	4	March 30, 1984
119	R5	22	Lake Tahoe ManagementBasin	4	March 30, 1984
120	R5	23	Angeles NF	4	March 30, 1984
121	R5	24	Arcadia Service Center	4	March 30, 1984
122	R5	25	Cleveland NF	4	March 30, 1984
123	PSW	2	Fresno, CA	4	April 6, 1984
124	R1	18	Rexford RD	4	April 6, 1984
125	R1	19	Missoula RD	4	April 6, 1984
126	R9	18	Athens RD	4	April 6, 1984
127	R6	20	Randle RD	4	April 6, 1984
128	R3	5	Gila NF	4	April 6, 1984
129	R2	11	Nebraska NF	4	April 6, 1984
130	R8	13	Francis Marion-Sumter NF	4	April 6, 1984
131	R4	10	Idaho City RD	4	April 13, 1984
132	R5	26	Palomar RD	4	April 13, 1984
133	R1	20	Medora RD	4	April 13, 1984
134	R1	21	Clearwater RD	4	April 13, 1984
135	R1	22	Powell RD	4	April 13, 1984
136	R1	23	Tally Lake RD	4	April 13, 1984
137	R1	24	Gallatin RD	4	April 20, 1984
138	R9	19	Elizabethtown RD	4	April 20, 1984
139	R9	20	Cadillac RD	4	April 20, 1984
140	R9	21	Ammonoosac RD	4	April 20, 1984
141	R9	22	Bradford RD	4	April 20, 1984
142	R9	23	Greenbrier RD	4	April 20, 1984
143	R9	24	Rochester RD	4	April 20, 1984
144	R6	21	Hells Canyon NRA	4	April 20, 1984
145	R6	22	Rogue River NF	8	April 27, 1984
146	R6	23	Burns RD	4	April 27, 1984
147	R6	24	Long Creek RD	4	April 27, 1984
148	R6	25	Prairie City RD	4	April 27, 1984
149	R2	12	Bighorn NF	4	April 27, 1984
150	R2	13	Routt NF	4	April 27, 1984
151	R2	14	Del Norte RD	4	April 27, 1984
152	R2	15	Saguache RD	4	April 27, 1984

System Priorities

153	R8	14	George Washington NF	4	May 4, 1984
154	R8	15	Daniel Boone NF	4	May 4, 1984
155	R8	16	Caribbean NF	4	May 4, 1984
156	R8	17	Cheoah RD	4	May 4, 1984
157	R4	11	New Meadows RD	4	May 4, 1984
158	R4	12	Council RD	4	May 4, 1984
159	R5	27	San Jacinto RD	4	May 4, 1984
160	R5	34	RO-Pleasant Hills	4	May 4, 1984
161	R5	35	Arroyo-Seco RD	4	May 11, 1984
162	R5	36	Saugus RD	4	May 11, 1984
163	R5	37	Descanto RD	4	May 11, 1984
164	R5	38	Shasta-Trinity NF	4	May 11, 1984
165	R1	25	Darby RD	4	May 11, 1984
166	R1	26	Townsend RD	4	May 11, 1984
167	R6	26	Dale RD	4	May 18, 1984
168	R3	6	Santa Fe NF	4	May 18, 1984
169	R8	18	Wayah RD	4	May 18, 1984
170	R4	13	Weiser RD	4	May 18, 1984
171	R1	27	Wise River RD	4	May 18, 1984
172	R1	28	Judith RD	4	May 18, 1984
173	R1	29	RO	4	May 18, 1984
174	R1	30	St. Maries RD	4	May 18, 1984
175	R1	31	Troy RD	4	May 25, 1984
176	R9	25	Kawishiwi RD	4	May 25, 1984
177	R9	26	Cass Lake RD	4	May 25, 1984
178	R9	27	Haywood RD	4	May 25, 1984
179	R9	28	Laona RD	4	May 25, 1984
180	R9	29	Watersmeet RD	4	May 25, 1984
181	R9	30	Rapid River RD	4	May 25, 1984
182	R6	27	Heppner RD	4	May 25, 1984
183	R6	28	Pomeroy RD	4	June 1, 1984
184	R6	29	Ukiah RD	4	June 1, 1984
185	R6	30	Walla Walla RD	4	June 1, 1984
186	R6	31	Prospect RD	4	June 1, 1984
187	R3	7	Prescott NF	4	June 1, 1984
188	R2	16	Pagosa RD	4	June 1, 1984

189	R2	17	Spearfish RD	4	June 8, 1984
190	R2	18	Creede RD	4	June 8, 1984
191	R2	19	Alamosa/Conejos RD	4	June 8, 1984
192	R8	19	Mt. Magazine RD	4	June 8, 1984
193	R8	20	Lake George RD	4	June 8, 1984
194	R8	21	Wakulla RD	4	June 8, 1984
195	R8	22	Tusquitee RD	4	June 15, 1984
196	R4	14	Ashley NF	4	June 15, 1984
197	R4	15	Ashton RD	4	June 15, 1984
198	R5	39	No. Calif. Service Center	4	June 15, 1984
199	R5	40	Plumas NF	4	June 15, 1984
200	R5	41	Oroville RD	4	June 15, 1984
201	R5	42	Mendocino NF	4	June 22, 1984
202	R5	43	Chico Tree Improvement Ctr	4	June 22, 1984
203	R5	44	Six Rivers NF	4	June 22, 1984
204	R5	45	Humboldt Nursery	4	June 22, 1984
205	R1	32	Hungry Horse RD	4	June 22, 1984
206	R1	33	Superior RD	4	June 22, 1984
207	R6	32	Applegate RD	4	June 29, 1984
208	R4	16	Dubois RD	4	June 29, 1984
209	R1	34	McKenzie RD	4	June 29, 1984
210	R1	35	Selway RD	4	June 29, 1984
211	R1	36	Palouse RD	4	June 29, 1984
212	R1	37	Sandpoint RD	4	June 29, 1984
213	R1	38	Swan Lake RD	4	July 6, 1984
214	R9	31	Poplar Bluff RD	4	July 6, 1984
215	R9	32	Potosi RD	4	July 6, 1984
216	R9	33	Brownstown RD	4	July 6, 1984
217	R9	34	Androscoggin RD	4	July 6, 1984
218	R9	35	Golconda JCCC	4	July 6, 1984
219	R9	35	Blackwell JCCC	4	July 6, 1984
220	R6	33	Colville NF	4	July 6, 1984
221	R6	34	Ashland RD	4	July 13, 1984
222	R6	35	Butte Falls RD	4	July 13, 1984
223	R6	36	J.H. Stone Nursery	4	July 13, 1984
224	R6	37	Powers RD	4	July 13, 1984
225	R2	20	Redfeather RD	4	July 13, 1984
226	R2	21	Harney RD	4	July 13, 1984

October 28, 1983

System Priorities

227	R2	22	Pactola RD	4	July 20, 1984
228	R2	23	Cebolla/Taylor River RD	4	July 20, 1984
229	R8	23	Pisgah RD	4	July 20, 1984
230	R8	24	Jessieville RD	4	July 20, 1984
231	R8	25	Womble RD	4	July 20, 1984
232	R8	26	Blacksburg RD	4	July 20, 1984
233	R4	17	Teton Basin RD	4	July 20, 1984
234	R4	18	Island Park RD	4	July 20, 1984
235	R5	46	Inyo NF	4	July 27, 1984
236	R5	47	Klamath NF	4	July 27, 1984
237	R5	48	Lassen NF	4	July 27, 1984
238	R5	49	Los Padres NF	4	July 27, 1984
239	R5	50	Modoc NF	4	July 27, 1984
240	R5	51	Sequoia NF	4	July 27, 1984
241	R5	52	Sierra NF	4	July 27, 1984
242	R1	39	Yaak RD	4	July 27, 1984
243	R1	40	Fisher River RD	4	August 3, 1984
244	R6	38	Lowell RD/Cougar Zone	4	August 3, 1984
245	R1	41	Fortine RD	4	August 3, 1984
246	R1	42	Engineering Zone III	4	August 3, 1984
247	R1	43	Elk City RD	4	August 3, 1984
248	R1	44	Plains RD	4	August 3, 1984
249	R1	45	Wallace RD	4	August 10, 1984
250	R9	37	Rolla RD	4	August 10, 1984
251	R9	38	Salem RD	4	August 10, 1984
252	R9	39	Ironton RD	4	August 10, 1984
253	R9	40	Evans Notch RD	4	August 10, 1984
254	R9	41	Cedar Creek RD	4	August 10, 1984
255	R9	42	Ava RD	4	August 17, 1984
256	R9	43	Tell City RD	4	August 17, 1984
257	R6	39	Gold Beach RD	4	August 17, 1984
258	R6	40	Oregon Dunes NRA	4	August 17, 1984
259	R6	41	Angell Job Corps Center	4	August 17, 1984
260	R6	42	South Zone Eng/Rigdon RD	4	August 17, 1984
261	R6	43	Paulina RD	4	August 24, 1984
262	R2	24	Hayden RD	4	August 24, 1984
263	R2	25	LarimePeak/ThunderBasin RD	4	August 24, 1984
264	R8	27	Bankhead RD	4	August 24, 1984
265	R8	28	San Jacinto RD	4	August 24, 1984
266	R8	29	Bienville RD	4	August 24, 1984

267	R8	30	Chickasawhay RD	4	August 31, 1984
268	R4	19	Palisades RD	4	August 31, 1984
269	R4	20	Intermountain Station	4	August 31, 1984
270	R5	53	Stanislaus NF	4	August 31, 1984
271	R5	54	Tahoe NF	4	August 31, 1984
272	R5	55	Valyermo RD	4	August 31, 1984
273	R5	4	RO	4	Sept. 7, 1984
274	R5	5	RO	4	Sept. 7, 1984
275	R5	6	RO	4	Sept. 7, 1984
276	R5	7	RO	4	Sept. 7, 1984
277	R1	46	Lochsa RD	4	Sept. 7, 1984
278	R6	44	Newport RD	4	Sept. 7, 1984
279	R1	47	Cabinet RD	4	Sept. 7, 1984
280	R9	44	Pemigewasset RD	4	Sept. 7, 1984
281	R9	45	Cassville RD	4	Sept. 14, 1984
282	R9	46	Doniphan RD	4	Sept. 14, 1984
283	R9	47	Saco RD	4	Sept. 14, 1984
284	R9	48	Van Buren RD	4	Sept. 14, 1984
285	R9	49	Willow Springs RD	4	Sept. 14, 1984
286	R9	50	Winoma RD	4	Sept. 14, 1984
287	R6	45	Sullivan Lake RD	4	Sept. 21, 1984
288	R6	46	Olympic NF	4	Sept. 21, 1984
289	R6	47	Fremont NF	4	Sept. 21, 1984
290	R6	48	PNW Research Station	4	Sept. 21, 1984
291	NE	2	For Sci Lab-Morgantown WV	4	Sept. 21, 1984
292	R3	8	Kaibab NF	4	Sept. 21, 1984
293	R8	31	Conecuh RD	4	Sept. 21, 1984
294	R8	32	Oakmulgee RD	4	Sept. 21, 1984

System Priorities

295	R8	33	Shoal Creek RD	4	Sept. 28, 1984
296	R8	34	Talladega RD	4	Sept. 28, 1984
297	R8	35	Toccoa RD	4	Sept. 28, 1984
298	R4	21	Intermountain Station	4	Sept. 28, 1984
299	R5	8	RO	4	Sept. 28, 1984
300	R5	9	RO	4	Sept. 28, 1984
301	R5	28	RO	4	Sept. 28, 1984
302	R5	29	RO	4	Sept. 28, 1984
303	R5	30	RO	4	Oct. 5, 1984
304	R5	31	RO	4	Oct. 5, 1984
305	R5	32	RO	4	Oct. 5, 1984
306	PSW	3	Arcata CA	4	Oct. 5, 1984
307	R5	33	RO	4	Oct. 5, 1984
308	R6	49	Illinois Valley RD	4	Oct. 5, 1984

October 28, 1983

System Priorities

Unit Seq #/National Priority

WO

1	1	Rosslyn 8th Floor/MV 4000
2	6	Rosslyn MV8000
3	24	So.Bldg MV8000

GSC

1	36	GSC

R1

1	2	RO	17	97	Fernan RD	33	206	Superior RD
2	17	Idaho Pan NF	18	124	Rexford RD	34	209	McKenzie RD
3	18	Kootenai NF	19	125	Missoula RD	35	210	Selway RD
4	46	Lolo NF	20	133	Medora RD	36	211	Palouse RD
5	[illegible]	Custer NF	21	134	Clearwater RD	37	212	Sandpoint RD
6	[illegible]	NezperceNF	22	135	Powell RD	38	213	Swan Lake RD
7	[illegible]	Clearwater NF	23	136	Tally Lake RD	39	242	Yaak RD
8	60	Flathead NF	24	137	Gallatin RD	40	243	Fisher River RD
9	61	Gallatin NF	25	165	Darby RD	41	245	Fortine RD
10	62	Bitterroot NF	26	166	Townsend RD	42	246	Eng Zone III
11	89	Helena NF	27	171	Wise River RD	43	247	Elk City RD
12	90	Beaverhead NF	28	172	Judith RD	44	248	Plains RD
13	93	Lewis&Clark NF	29	173	RO	45	249	Wallace RD
14	94	Deerlodge NF	30	174	St. Maries RD	46	277	Lochsa RD
15	95	Anaconda CCC	31	175	Troy RD	47	279	Cabinet RD
16	96	Aer'l Fire Dpt	32	205	Hungry Horse RD			

R2

1	8	RO	10	110	Medicine Bow NF	18	190	Creede RD
2	31	Rio Grande NF	11	129	Nebraska NF	19	152	Saguache RD
3	32	Black Hills NF	12	149	Bighorn NF	20	225	Redfeather RD
4	52	Pike SanIs NF	13	150	Routt NF	21	226	Harney RD
5	73	Arap/Roos NF	14	151	Del Norte RD	22	227	Pactola RD
6	74	White River NF	15	191	Alamosa/Cone RD	23	228	Ceb/TayRiv RD
7	75	San Juan NF	16	188	Pagosa RD	24	262	Hayden RD
8	108	Grande Mesa NFs	17	189	Spearfish RD	25	263	LarPk/Thund RD
9	109	Shoshone NF						

System Priorities

R3

1	7	RO
2	29	Apache-Sitegreaves NF
3	30	Lincoln NF
4	51	Coconino NF
5	128	Gila NF
6	168	Santa Fe NF
7	187	Prescott NF
8	292	Kaibab NF

R4

1	12	RO	8	115	Emmett RD	15	197	Ashton RD
2	38	Boise NF	9	116	Boise RD	16	208	Dubois RD
3	39	Payette NF	10	131	Idaho City RD	17	233	Teton Basin RD
4	55	Targhee NF	11	157	New Meadows RD	18	234	Island Park RD
5	81	Dixie NF	12	158	Council RD	19	268	Palisades RD
6	82	Toiyabe NF	13	170	Weiser RD	20	269	INT Ogden
7	92	Mt. Home RD	14	196	Ashley NF	21	298	INT Missoula

R5

1	13	RO	20	117	Racific RD	38	164	Shasta T NF
2	40	San BernadinoNF	21	118	Placerville RD	39	198	No Cal Svc Ctr
3	41	El Dorado NF	22	119	Lake Tahoe Mgt	40	199	Plumas NF
4	273	RO	23	120	Angeles NF	41	200	Oroville RD
5	274	RO	24	121	Arcadia Svc Ctr	42	201	Medicino NF
6	275	RO	25	122	Cleveland NF	43	202	Chico Tree Imp
7	276	RO	26	132	Palomar RD	44	203	Six Rivers NF
8	299	RO	27	159	San Jacinto RD	45	204	Humboldt Nurs
9	300	RO	28	301	RO	46	235	Inyo NF
10	56	San Bern NF	29	302	RO	47	236	Klamath NF
11	44	S. Zone Rivrsde	30	303	RO	48	237	Lassen NF
12	45	Arrowhead RD	31	304	RO	49	238	LosPadres NF
13	43	Big Bear RD	32	305	RO	50	239	Modoc NF
14	83	Cajon RD	33	307	RO	51	240	Sequoia NF
15	84	San Gregon.RD	34	160	RO-Pleas.Hill	52	241	Sierra NF
16	85	El Dorado NF	35	161	Arroyo-Seco RD	53	270	Stanislaus NF
17	86	Placervl Nurs	36	162	Saugus RD	54	271	Tahoe NF
18	87	Almadora RD	37	163	Decanto RD	55	272	Valyermo RD
19	88	Georgetown RD						

System Priorities

R

1	5	RO	17	105	Mt. Adams RD	33	220	Colville NF
2	16	Willamette NF	18	106	Giff Pinchot NF	34	221	Ashland RD
3	25	Malheur NF	19	107	Packwood RD	35	222	Butte Falls RD
4	26	Umatilla NF	20	127	Randle RD	36	223	JH Stone Nurs
5	27	Umpqua NF	21	144	HellsCanyon NRA	37	224	Powers RD
6	28	WallowaWhitmnNF	22	145	Rogue River NF	38	244	LowellRD/Cougar
7	49	Deschutes NF	23	146	Burns RD	39	257	Gold Beach RD
8	50	Siuslaw NF	24	147	Long Creek RD	40	258	Oreg Dunes NRA
9	68	Siskiyou	25	148	Prairie City RD	41	259	Angell JCC
10	69	Bear Valley RD	26	167	Dale RD	42	260	S Zone/RigdonRD
11	70	Mt.Hood NF	27	182	Heppner RD	43	261	Paulina RD
12	71	Okanogan NF	28	183	Pomeroy RD	44	278	Newport RD
13	72	Wenatchee NF	29	184	Ukiah RD	45	287	SullivanLake RD
14	91	Ochoco NF	30	185	Walla Walla RD	46	288	Olympic NF
15	103	Winema NF	31	186	Prospect RD	47	289	Freemont NF
16	104	MtBaker/Snoq NF	32	207	Applegate RD	48	290	PNW Res Station
						49	308	Illinois Val RD

R8

1	9	RO	13	130	Fran Marion NF	25	231	Womble RD
2	33	NF N Carolina	14	153	G Washington NF	26	232	Blacksburg RD
3	[illegible]	NF Florida	15	154	Daniel Boon NF	27	264	Bankhead RD
4	[illegible]	NF Mississippi	16	155	Caribbean NF	28	265	San Jacinto RD
5	[illegible]	Ouachita NF	17	156	Cheoah RD	29	266	Bienville RD
6	76	Ozark/StFran NF	18	169	Wayah RD	30	267	Chickasawhay RD
7	77	NF Texas	19	192	Mt Magazine RD	31	293	Conecuh RD
8	78	Jefferson NF	20	193	Lake George RD	32	294	Oakmulgee RD
9	111	Kisatchie NF	21	194	Wakulla RD	33	295	Shoal Creek RD
0	112	NF Alabama	22	195	Tusquitec RD	34	296	Talladega RD
1	113	Cherokee NF	23	229	Pisgah RD	35	297	Toccoa RD
2	114	ChattahoocheeNF	24	230	Jessieville RD			

October 28, 1983

System Priorities

R9

1	4	RO	18	126	Athens RD	35	218	Golconda JCCC
2	19	White Mtn NF	19	138	ElizabethtownRD	36	219	Blackwell JCCC
3	20	Mark Twain	20	139	Cadillac RD	37	250	Rolla RD
4	21	Superior NF	21	140	Ammonoosue RD	38	251	Salem RD
5	22	Chippewa	22	141	Bradford RD	39	252	Ironton RD
6	23	Chequamegon RD	23	142	Greenbrier RD	40	253	Evans Notch RD
7	48	Nicolet NF	24	143	Rochester RD	41	254	Cedar Creek RD
8	63	Ottawa NF	25	176	Kawishiwi RD	42	255	Ava RD
9	64	Hiawatha NF	26	177	Cass Lake RD	43	256	Tell City RD
10	65	Allegheny NF	27	178	Haywood RD	44	280	Pemigewasset RD
11	66	Monongahela	28	179	Laona RD	45	281	Cassville RD
12	67	Green Mt NF	29	180	Watersmeet RD	46	282	Doniphan RD
13	98	WayneHoosier NF	30	181	Rapid River RD	47	283	Saco RD
14	99	Shawnee NF	31	214	Poplar Bluff RD	48	284	Van Buren RD
15	100	HuronManisteeNF	32	215	Potosi RD	49	285	WillowSpringsRD
16	101	FrederickstwnRD	33	216	Brownstown RD	50	286	Winoma RD
17	102	Houston RD	34	217	Androscoggin RD			

R10

1	11	RO
2	37	Tongass NF-Chatham Area
3	54	PNW-Juneau
4	80	Juneau RD

NE

1	14	Broomhall PA
2	291	Morgantown WV

SE

1	10	Asheville NC
2	57	Forest Fire Lab, Dry Branch GA
3	79	Athens GA

System Priorities

PSW

1	3	Berkley CA
2	123	Fresno CA
3	306	Arcadia CA

SO

1	42	New Orleans LA

FCCC

1	15	Fort Collins CO

VI. SUMMARY TABLES
FOR DATA

BLM _ USER IDENTIFICATION
Encl. 1

401-NRS

(incl. [illegible] Trng. Cntrs.)
(incl. Reg. Proj. Off.)

		No. of Employees Per Location	No. of Employees L&M Function	No. of Employees [illegible] Function
ARIZONA STATE OFFICE	M	173+8V	38	1
Arizona Strip DO	L	31	1	0
Shivwits AO	L	9	1	0
Vermillion AO	L	13	1	0
Phoenix DO	H	48+2V	8	0
Phoenix RAH	M	16+1V	5	0
Kingman RAH	H	31+2V	3	0
Lower Gila RAH	M	14	4	0
Safford DO	M	35	3	0
Gila AO	M	12	0	0
San Simon AO	L	10	1	0
Yuma DO	L	28	5	0
Havasu RAH	M	11	1	0
Yuma AO	L	14	1	0
TOTAL				

		NO. OF EMPLOY-EES PER LOCATION	NO. OF EMPLOY-EES L + M FUNC-TION	N OF E LOY-E RE-CORDS FUNCTION
CALIFORNIA STATE OFFICE	M	246+8V	43	22
Bakersfield DO	H	67+3V	20	0
Caliente RAH	H	13	1	0
Bishop RAH	M	11	2	0
Folsom RAH	H	21	3	0
Hollister RAH	M	12	1	0
Susanville DO	M	70	3	0
Eagle Lake RAH	L	32	1	0
Alturas RAH	M	25	2	0
Surprise RAH	M	26	1	0
Ukiah DO	M	38	6	0
Redding RAH	H	31	7	0
Arcata RAH	M	14+1V	4	0
Clear Lake AO		12	2	0
California Desert DO	H	68+2V	11	0
Ridgecrest RAH	M	19	2	0
Indio AO	M	14+1V	3	0
El Centro RAH	M	19	3	0
Barstow RAH	H	27	4	0
Needles RAH	M	21	2	0
TOTAL				

		NO. OF EMPLOYEES PER LOCATION	NO. OF EMPLOYEES L& M FUNCTION	OF EMPLOYEES RECORDS FUNCTION
COLORADO STATE OFFICE	H	293+7V	59	14
Canon City DO	M	39+2V	7	0
Northeast RAH	M	7	3	0
Royal Gorge RAH	M	21	4	0
San Luis RAH	L	11	0	0
Craig DO	H	73+2V	19	0
Kremmling RAH	L	18	1	0
Little Snake RAH	H	21+1V	4	0
White River RAH	H	33+1V	8	0
Grand Junction DO	H	63	14	0
Glenwood Springs RAH	M	15	2	0
Grand Junction AO	H	32	9	0
Montrose DO	H	38	6	0
Gunnison Basin RAH	M	12+1V	2	0
San Juan RAH	H	23	4	0
Uncompahgre RAH	M	22+1V	4	0
TOTAL				

		Employees Per Location	Employees L+M Function	Employees [illegible] tion
IDAHO STATE OFFICE	L	147	23	12
Boise DO	H	70	5	0
Bruneau AO	H	11	1	0
Cascade AO	M	9	1	0
Jarbidge AO	L	11	3	0
Owyhee AO	H	12	2	0
Burley DO	L	24	3	0
Deep Creek AO	L	6	0	0
Snake River AO	L	11	1	0
Coeur d' Alene DO	L	20	2	0
Cottonwood RAH	M	13	1	0
Emerald Empire AO	L	9	2	0
Idaho Falls DO	M	33	5	0
Big Butte AO	M	8	1	0
Medicine Lodge AO	M	8	1	0
Pocatello RAH	H	11	4	0
Soda Springs AO		—	—	—
Salmon DO	L	28	1	0
Challis AO	L	9	2	0
Lemhi AO	L	10	2	0
Shoshone DO	L	28	3	0
Bennett Hills AO	M	8	1	0
Monument AO	L	10	1	0
TOTAL				

		NO. OF EMPLOYEES PER LOCATION	NO. OF EMPLOY L+M FUNCTION	NO. OF EMPLOYEES RECORDS FUNCTION
MONTANA STATE OFFICE	H	245+9V	53	30
Butte DO	M	42	8	0
Dillon RAH	M	20	2	0
Garnet RAH	M	19	3	0
Headwater AO	M	11+1V	3	0
Dickinson DO	M	29+2V	14	0
Lewistown DO	H	66+1V	10	0
Great Falls RAH	H	19	9	0
Havre RAH	L	12	1	0
Judith AO	L	9	1	0
Phillips RAH	M	12+1V	2	0
Valley RAH	H	11+1V	1	0
Miles City DO	H	56+2V	10	0
Big Dry RAH	H	22	4	0
Billings RAH	M	13+1V	3	0
Powder River RAH	H	17+2V	5	0
South Dakota RAH	M	7	1	0
TOTAL				

		NO. OF EMPLOYEES PER LOCATION	NO. OF EMPLO S L+M FUNCTION	NO. OF EMPLOYEES RECORDS FUNCTION
NEW MEXICO STATE OFFICE	H	273+8V	68	19
Albuquerque DO	H	88+2V	24	0
Farmington RAH	H	76+1V	39	0
Rio Peuerco AO	H	31	4	0
Taos RAH	L	19	4	0
Las Cruces DO		47+1V	3	0
Las Cruces/ Lordsburg RAH	L	19+1V	3	0
Socorro RAH	M	35+1V	7	0
White Sands AO	L	26	3	0
Roswell DO	H	60+4V	25	0
Carlsbad RAH	H	50+2V	21	0
Roswell AO	H	30+2V	14	0
Tulsa DO	M	34+2V	15	0
Oklahoma RAH	M	21+1V	15	0
TOTAL				

		NO. OF EMPLOYEES PER LOCATION	NO. OF EMPLOYEE L+M FUNCTION	NO. OF MPLOYEES ECORDS FUNCTION
NEVADA STATE OFFICE	M	153+10V	27	18
Battle Mountain DO	L	27	2	0
Shoshone-Eureka AO	L	14+1V	3	0
Tonopah RAH	M	11	2	0
Carson City DO	M	54	3	0
Lahontas AO	M	14	4	0
Walker AO	L	10	2	0
Elko DO	L	40+1V	4	0
Elko AO	M	19+1V	3	0
Wells AO	L	13+1V	2	0
Ely DO	L	24	0	0
Egan AO	L	15	4	0
Schell AO	L	16	2	0
Las Vegas DO	H	38+1V	5	0
Caliente RAH	L	14+1V	1	0
Stateline-Esmeralda AO	H	22	4	0
Winnemucca DO	L	25+1V	2	0
Paradise-Denio AO	L	13	2	0
Sonoma-Gerlach AO	M	15+1V	2	0
TOTAL				

		NO. OF EMPLOYEES PER LOCATION	NO. OF EMPLOYEES L&M FUNCTION	NO. OF EMPLOYEES RECORDS FUNCTION	
OREGON STATE OFFICE	M	278+4V	36	12	
Burns DO	M	54	2	0	
Three Rivers AO	H	11	0	0	
Andrews AO	M	7+2V	2	0	
John Day AO		—	—	—	
Coos Bay DO	M	87	2	0	
Tioga AO	M	28	0	0	
Umpqua AO	M	25	0	0	
Myrtlewood AO	M	31	0	0	
Eugene DO	M	98	3	0	
Noti RAH	L	25	0	0	
Dorena AO	L	23	0	0	
Mohawk AO	M	26	0	0	
Lorane AO	M	26	0	0	
Lakeview DO	L	26	1	0	
Warner Lake AO	L	5	0	0	
High Desert AO	M	4	1	0	
Klamath Falls RAH		7	1	0	
Medford DO	H	123	6	0	
Klamath AO	H	37	1	0	
Butte Falls AO	H	29	1	0	
Jacksonville AO	H	34	0	0	
Grants Pass AO	H	38	1	0	
Glendale AO	M	33	1	0	
Prineville DO	M	29	2	0	
Central Oregon AO	M	6	1	0	
Deschutes AO	M	8	2	0	
Roseburg DO	M	92	3	0	
No Umpqua AO	L	27	0	0	
So Umpqua AO	M	23	0	0	
Dillard AO	L	25	0	0	
Drain AO	L	24	0	0	
TOTAL					

(Continued next page)

OREGON STATE OFFICE (cont.)		NO. OF EMPLOYEES PER LOCATION	NO. OF EMPLOY S L&M FUNCTI	NO. OF EMPLOYEES RECORDS FUNCTION	
Salem DO	M	112	3	0	
Santiam AO	L	19	0	0	
Alsea AO	M	23	0	0	
Tillamook RAH	M	20	0	0	
Yamhill AO	L	18	0	0	
Clackamas AO	L	21	0	0	
Spokane DO	L	24	3	0	
Border AO	L	7+1V	2	0	
Wenatchee RAH	L	4	0	0	
Vale DO	H	59	2	0	
No Malheur AO	H	7	1	0	
Baker RAH	H	25	3	0	
So Malheur AO	H	8	1	0	
TOTAL					
GRAND TOTAL					

		NO. OF EMPLOYEES PER LOCATION	NO. OF EMPLOYEES L&M FUNCTION	NO. OF EMPLOYEES RECORDS FUNCTION
UTAH STATE OFFICE	H	176	39	14
Cedar City DO	M	42	3	0
Beaver River RAH	M	17	2	0
Dixie RAH	H	8	1	0
Escalante RAH	L	7	1	0
Kanab RAH	M	14	2	0
Moab DO	H	55+2V	12	0
Grand RAH	H	14+1V	5	0
Price River RAH	M	14	4	0
San Juan RAH	H	20	4	1
San Rafael RAH	H	19	4	0
Richfield DO	M	44	3	0
Henry Mountain RAH	L	11+1V	2	0
House Range RAH	L	10	0	0
Sevier River RAH	M	9+2V	3	0
Warm Springs RAH	M	11	2	0
Salt Lake DO	L	27+2V	3	0
Bear River AO	M	17	4	0
Pony Express AO	L	12	2	0
Vernal DO	M	43	5	0
Book Cliffs AO	H	15	6	0
Diamond Mountain AO	M	16+1V	5	0

		NO. OF EMPLOYEES PER LOCATION	NO. OF EMPLOYEES L&M FUNCTIO	NO. OF MPLOYEES ECORDS FUNCTION
WYOMING STATE OFFICE	H	278+12V	56	46
Casper DO	H	77+6V	38	0
Buffalo RAH	H	24	9	0
Newcastle RAH	H	20+1V	10	0
Platte River AO	H	24+2V	8	0
Rawlins DO	H	76+10V	36	0
Divide AO	M	17	4	0
Lander RAH	H	32+2V	11	0
Medicine Bow AO	L	13	2	0
Rock Springs DO	H	93+7V	34	0
Big Sandy RAH	M	15+1V	3	0
Kimmerer RAH	H	17+2V	4	0
Pinedale RAH	M	13	2	0
Salt Wells RAH	H	11	3	0
Worland DO		70+6V	25	0
Cody RAH	M	10+1V	3	0
Grass Creek AO	L	14	1	0
Washakie AO	L	14	2	0
TOTAL				

		NO. OF EMPLOYEES PER LOCATION	NO. OF EMPLOY. L+M FUNCTION	NO. OF EMPLOYEES RECORDS FUNCTION
EASTERN STATES OFFICE	L	178+4✓	54	4
Jackson DO	L	37+2✓	22	0
Public Land Srvy States				
Alabama, Arkansas				
Florida, Louisiana				
Mississippi				
Non-PLS States				
Georgia, Kentucky				
North & South Carolina				
Tennessee, Virginia				
Milwaukee DO	L	42	21	0
Public Land Srvy States				
Illinois, Indiana				
Iowa, Michigan				
Minnesota, Missouri				
Ohio(70%), Wisconsin				
Non-PLS States				
Connecticut, Delaware				
Dist. of Col., Maine				
Maryland, Massachusetts				
N. Hampshire, N. Jersey				
New York, Ohio(30%)				
Pennsylvania, Rhode Is.				
Vermont, W. Virginia				
TOTAL				

		NO. OF EMPLOYEES PER LOCATION	NO. OF EMPLOYEES L+M FUNCTION	NO. OF EMPLOYEES RECORDS FUNCTION
WASHINGTON OFFICE	M	529+9V	76	0
Board of Trade Building (711, 720, 730, 740, 811, 860, 870, 871, 872, 873)	M	52+1V	0	5
Premier Building (105, 201, 202, 220, 221, 222, 230, 240, 250)	L	59	0	0
Matomic Building (504, 620, 621, 622, 623, 630, 631, 632, 690, 691, 692, 833)	H	80+1V	40	0
TOTAL				
DENVER SERVICE CENTER D-100, 150, 140	L	549+1V	3	0
D-200	M	23	0	0
D-400	M	176	0	0
D-500	L	141+1V	3	0
	L	204	0	0
TOTAL				
ALASKA STATE OFFICE		518(+14V)	156	53
Anchorage DO		92+12V	21	0
Peninsula AO		11	7	0
Glennallen RAH		10	3	0
McGrath AO		13+1V	6	0
Fairbanks DO		96+1V	19	18
Northwest AO		13	4	0
Yukon AO		20	7	0
Arctic AO		11	1	0
Alaska Fire Service		163	0	0
TOTAL				

WASHINGTON

DEPARTMENT OF THE INTERIOR

Bureau of Land Management
18th & C Streets, N.W.
Washington, D.C. 20240 MEDIUM

Bureau of Land Management
Board of Trade Building
1129 - 20th Street, N.W.
Washington, D.C. 20240 MEDIUM

Resource Protection Staff (711)
- Cadastral Survey (720)
- Engineering (730)
- Fire & Aviation Management (740)
- Safety Staff (811)

Program Evaluation (860)
Information Resources Management (870)
Records Management (871)
Telecommunications Management (872)
Information Systems Management (873)

Bureau of Land Management
Premier Building
1725 I Street, N.W.
Washington, D.C. 20240 LOW

ALMRS Staff (105)
Resource Sciences Staff (201)
Planning & Environmental Coord (202)
Rangeland Resources (220)
Range Management (221)
Soil, Water, & Air (222)
Forestry (230)
Wildlife (240)
Wild Horses and Burros (250)

Bureau of Land Management
Matomic Building
1717 H. Street, N.W.
Washington, D.C. 20240 HIGH

Inspection and Enforcement (504)
Fluid Mineral Leasing (620)
Fluid Leasing (621)
Leasing Management & Resource Evaluation (622)
Program Development (623)
Fluid Mineral Operations (630)
Fluid Mineral Operations Programs (631)
Technical Support (632)
Geology & Mineral Resources (690)
Classification & Assessment (691)
Geology & Mineral Support (692)
Employee Development & Performance Improvement (833)

EWCL 1

STATE OFFICE	DISTRICT OFFICES	AREA OFFICES
ARIZONA		
Arizona State Office 3707 North 7th Street Phoenix, Arizona 85014 MEDIUM	Arizona Strip Dist. Office 196 E. Tabernacle St. George, Utah 84770 LOW	Shivwits Resource Area LOW 196 E. Tabernacle St. George, Utah 84770
		Vermillion Resource Area LOW 196 E. Tabernacle St. George, Utah 84770
	Phoenix District Office 2015 W. Deer Valley Road Phoenix, Arizona 85027 HIGH	Kingman Resource Area HIGH 2475 Beverly Avenue Kingman, Arizona 86401
		Lower Gila Resource Area MEDIUM 2935 W. Clarendon Avenue Phoenix, Arizona 85017
		Phoenix Resource Area MEDIUM 2937 W. Indian School Road Phoenix, Arizona 85017
	Safford District Office 425 E. 4th Street Safford, Arizona 85546 MEDIUM	San Simon Resource Area LOW 425 E. 4th Street Safford, Arizona 85546
		Gila Resource Area MEDIUM 425 E. 4th Street Safford, Arizona 85546
	Yuma District Office 2450 Fourth Avenue P.O. Box 5680 Yuma, Arizona 85364 LOW	Yuma Resource Area LOW 2450 Fourth Avenue P.O. Box 5680 Yuma, Arizona 85364
		Havasu Resource Area MEDIUM 2049 Swanson Avenue P.O. Box 685 Lake Havasu City, AZ 86403

TRAINING CENTER

Phoenix Training Center
5050 N. 19th Avenue
Suite 300
Phoenix, Arizona 85015

TOTAL: 1 - State Office
4 - District Offices
9 - Resource Area Offices
1 - Training Center

STATE OFFICE	DISTRICT OFFICES	AREA OFFICES	
CALIFORNIA			
California State Office Federal Office Building Room E-2841 2800 Cottage Way Sacramento, CA 95825 MEDIUM	Bakersfield District Office 800 Truxtum Avenue, Rm. 302 Bakersfield, CA 93301 HIGH	Bishop Resource Area 873 N. Main St., Suite 201 Bishop, CA 93514	MEDIUM
		Calient Resource Area 520 Butte Street Bakersfield, CA 93305	HIGH
		Folsom Resource Area 63 Natoma Street Folsom, CA 95630	HIGH
		Hollister Resource Area P.O. Box 365 Hollister, CA 95023	MEDIUM
	Susanville District Office 705 Hall Street P.O. Box 1090 Susanville, CA 96130 MEDIUM	Eagle Lake Resource Area 2545 Riverside Drive P.O. Box 1090 Susanville, CA 96130	LOW
		Cedarville Resource Area 602 Cressler Street P.O. Box 460 Cedarville, CA 96104	MEDIUM
		Alturas Resource Area Centerville Road P.O. Box 771 Alturas, CA 96101	LOW
	Ukiah District Office 555 Leslie Street Ukiah, CA 95482 MEDIUM	Arcata Resource Area 1585 "J" Street P.O. Box II Arcata, CA 95521	MEDIUM
		Redding Resource Area 355 Hemsted Drive Redding, CA 96001	HIGH
	California Desert District 1695 Spruce Street Riverside, CA 92507 HIGH	El Centro Resource Area 333 So. Waterman Avenue El Centro, CA 92243	MEDIUM
		Barstow Resource Area 831 Barstow Road Barstow, CA 92311	HIGH

STATE OFFICE	DISTRICT OFFICES	AREA OFFICES	
COLORADO:			
Colorado State Office 2020 Arapahoe Street Denver, CO 80205 HIGH	Canon City District Office 3080 East Main Street Canon City, CO 81212 MEDIUM	Northeast Resource Area 10200 West 44th Avenue Wheatridge, CO 80033	MEDIUM
		San Luis Resource Area 1921 State Street Alamosa, CO 81101	LOW
		Royal Gorge Resource Area 831 Royal Gorge Boulevard P.O. Box 1470 Canon City, CO 81212	MEDIUM
	Craig District Office P.O. Box 248 455 Emerson Street Craig, CO 81626 HIGH	Kremmling Resource Area P.O. Box 68 Kremmling, CO 80459	LOW
		White River Resource Area P.O. Box 928 Meeker, CO 81641	HIGH
		Little Snake Resource Area 1280 Industrial Avenue Craig, CO 81625	HIGH
	Grand Junction Dist. Office 764 Horizon Drives Grand Junction, CO 81501 HIGH	Glenwood Springs Res. Area 50629 Hiways 6 & 24 P.O. Box 1009 Glenwood Springs, CO 81601	MEDIUM
		Grand Junction Res. Area 764 Horizon Drive Grand Junction, CO 81501	HIGH
		Western Slope Fire Operations 764 Horizon Drive Grand Junction, CO 81501	LOW
	Montrose District Office 2465 S. Townsend Montrose, CO 81402 HIGH	Uncompahgre Basin Res. Area 336 S. 10th P.O. Box 1269 Montrose, CO 81402	MEDIUM
		Gunnison Basin Resource Area 11 S. Park Street P.O. Box 1269 Montrose, CO 81402	MEDIUM

STATE OFFICE DISTRICT OFFICES AREA OFFICES

CALIFORNIA (continued)

Indio Resource Area MEDIUM
1695 Spruce Street
Riverside, CA 92507

Needles Resource Area MEDIUM
901 3rd Street
Needles, CA 92363

Ridgecrest Resource Area MEDIUM
112 East Dolphin Street
Ridgecrest, CA 93555

TOTAL:
1 - State Office
4 - District Offices
14 - Resource Area Offices

STATE OFFICE   DISTRICT OFFICES   AREA OFFICES

COLORADO (continued)

San Juan Resource Area   LOW
Federal Building
701 Camino Del Rio
Durango, CO 81301

Dolores Archaeological
Project Lab
P.O. Box 758
Dolores, CO 81323

SERVICE CENTER

Bureau of Land Management
Denver Service Center
Denver Federal Center
Denver, Colorado 80225
LOW

TOTAL:
1 - State Office
4 - District Offices
13 - Resource Area Offices
1 - Service Center

STATE OFFICE	DISTRICT OFFICES	AREA OFFICES
EASTERN STATES OFFICE		
Eastern States Office 350 So. Pickett Street Alexandria, VA 22304 LOW	Jackson District Office P.O. Box 11348 Jackson, MS 39213 LOW	
	Milwaukee District Office 310 W. Wisconsin Avenue Suite 220 Milwaukee, WI 53203 LOW	Rolla Resource Area LOW 901 Pine Stree Suite 201 Rolla, MO 65401

TOTAL: 1 - State Office
2 - District Offices
1 - Resource Area Office

IDAHO

STATE OFFICE	DISTRICT OFFICES	AREA OFFICES
Idaho State Office 3380 Americana Terrace Boise, ID 83706 LOW	Boise District Office 3948 Development Avenue Boise, ID 83705 HIGH	Cascade Resource Area MEDIUM 3948 Development Avenue Boise, ID 83705
		Owyhee Resource Area HIGH 3948 Development Avenue Boise, ID 83705
		Bruneau Resource Area HIGH 3948 Development Avenue Boise, ID 83705
		Jarbidge Resource Area LOW 3948 Development Avenue Boise, ID 83705
	Burley District Office Route 3, Box 1 Burley, ID 83318 LOW	Deep Creek Resource Area LOW Route 3, Box 1 Burley, ID 83318
		Snake River Resource Area LOW Route 3, Box 1 Burley, ID 83318
	Coeur d'Alene Dist. Office 1808 N. Third Street Coeur d'Alene, ID 83814 LOW	Emerald Empire Resource Area LOW 1808 N. Third Street Coeur d'Alene, ID 83814
		Cottonwood Resource Area MEDIUM Route 3, Box 181 Cottonwood, ID 83522
	Idaho Falls District Office 940 Lincoln Road Idaho Falls, ID 83401 MEDIUM	Pocattello Resource Area HIGH Fed. Bldg., U. S. Courthouse 250 So. 4th Ave., Suite 172 Pocatello, ID 83201
		Big Butte Resource Area MEDIUM 940 Lincoln Road Idaho Falls, ID 83401
		Medicine Lodge Res. Area MEDIUM 940 Lincoln Road Idaho Falls, ID 83401
	Salmon District Office P.O. Box 430 Salmon, ID 83467 LOW	Lemhi Resource Area LOW P.O. Box 430 Salmon, ID 83467
		Challis-Mackay Resource Area LOW P.O. Box 430 Salmon, ID 83467

STATE OFFICE	DISTRICT OFFICES	AREA OFFICES
DAHO (continued)		
	Shoshone District Office 400 West "F" Street P.O. Box 2B Shoshone, ID 83352 LOW	Monument Resource Area LOW 400 West "F" Street P.O. Box 2B Shoshone, ID 83352
		Bennett Hills Res. Area MEDIUM 400 West "F" Street P.O. Box 2B Shoshone, ID 83352

FIRE

Boise Interagency Fire Center
3905 Vista Avenue
Boise, ID 83705

TOTAL:
1 - State Office
6 - District Offices
15 - Resource Area Offices
1 - Fire Center

STATE OFFICE	DISTRICT OFFICES	AREA OFFICES	
MONTANA			
Montana State Office Granite Tower, Box 36800 222 N. 32nd Street Billings, MT 59107 HIGH	Butte District Office 106 N. Parkmont P.O. Box 3388 Butte, MT 59702 MEDIUM	Headwater Resource Area 106 N. Parkmont P.O. Box 3388 Butte, MT 59702	MEDIUM
		Dillon Resource Area Ibey Bldg. N. Dillon P.O. Box 1048 Dillon, MT 59725	MEDIUM
		Garnet Resource Area 3255 FT Missoula Road Missoula, MT 59806	MEDIUM
	Miles City District Office West of Miles City P.O. Box 940 Miles City, MT 59301 HIGH	Big Dry Resource Area Miles City Plaza Miles City, MT 59301	HIGH
		Powder River Resource Area Miles City Plaza Miles City, MT 59301	HIGH
		South Dakota Res. Area 319 Roundup Street Belle Fourche, SD 57717	MEDIUM
		Billings Resource Area 810 East Main Street Billings, MT 59101	MEDIUM
	Dickinson District Office P.O. Box 1229 Dickinson, ND 58602 MEDIUM		
	Lewistown District Office Airport Road Lewistown, MT 59457 HIGH	Judith Resource Area Airport Road Lewistown, MT 59457	LOW
		Phillips Resource Area 501 So. 2nd Street, E. P.O. Box B Malta, MT 59501	MEDIUM

STATE OFFICE   DISTRICT OFFICES   AREA OFFICES

MONTANA (continued)

Havre Resource Area   LOW
West 2nd Street
P.O. Drawer 911
Havre, MT 59501

Valley Resource Area   HIGH
RR 1-4775
Glasgow, MT 59230

Great Falls Resource Area   HIGH
215 1st Avenue North
P.O. Drawer 2865
Great Falls, MT 56403

TOTAL:
1 - State Office
4 - District Offices
14 - Resource Area Offices

STATE OFFICE	DISTRICT OFFICES	AREA OFFICES
NEVADA		
Nevada State Office Federal Bldg., Room 3008 300 Booth Street P. O. Box 12000 Reno, NV 89520 MEDIUM	Battle Mountain Dist. Off. P.O. Box 1420 Battle Mountain, NV 89820 LOW	Shoshone-Eureka Res. Area LOW P.O. Box 1420 Battle Mountain, NV 89820
		Tonopah Resource Area MEDIUM Bldg., 102 Old Radar Base Box 911 Tonopah, NV 89409
	Carson City Dist. Office 1050 E. William Street Suite 335 Carson City, NV 89701 MEDIUM	Lahontan Resource Area MEDIUM 1050 E. William Street Suite 335 Carson City, NV 89701
		Walker Resource Area MEDIUM 1050 E. William Street Suite 335 Carson City, NV 89701
	Elko District Office P.O. Box 831 Elko, NV 89801 LOW	Elko Resource Area MEDIUM P.O. Box 831 Elko, NV 89801
		Wells Resource Area LOW P.O. Box 831 Elko, NV 89801
	Ely District Office Star Route 5, Box 1 Ely, NV 89301 LOW	Egan Resource Area LOW Star Route 5, Box 1 Ely, NV 89301
		Schell Resource Area LOW Star Route 5, Box 1 Ely, NV 89301
	Las Vegas District Office P.O. Box 26569 4765 Vegas Drive Las Vegas, NV 89126 HIGH	STATEline-Esmeralda Res. Area HIGH P.O. Box 26569 4765 Vegas Drive Las Vegas, NV 89126
		Caliente-Virgin Valley Resource Area LOW P.O. Box 237 Caliente, NV 89008

STATE OFFICE	DISTRICT OFFICES	AREA OFFICES
NEVADA (continued)		
	Winnemucca District Office 705 East 4th Street Winnemucca, NV 89445 LOW	Paradise-Denio Res. Area LOW 705 East 4th Street Winnemucca, NV 89445
		Sonoma-Gerlach Res. Area MEDIUM 705 East 4th Street Winnemucca, NV 89445

TOTAL: 1 - State Office
5 - District Offices
13 - Resource Area Offices

STATE OFFICE	DISTRICT OFFICES	AREA OFFICES
EW MEXICO		
New Mexico State Office Joseph M. Montoya Federal Building South Federal Place P.O. Box 1449 Santa Fe, NM 87501 HIGH	Albuquerque District Office 3550 Pan Am. Freeway, NE Albuquerque, NM 87107 HIGH	Rio Peuerco Res. Area HIGH 3540 Pan American Freeway, NE Albuquerque, NM 87107
		Farmington Resource Area HIGH 900 La Plata Highway P.O. Box 568 Farmington, NM 87401
		Taos Resource Area LOW Plaza Montevideo Building Cruz Alta Road P.O. Box 1045 Taos, NM 87571
	Las Cruces District Office 317 N. Main P.O. Box 1420 Las Cruces, NM 88004 LOW	Las Cruces/Lordsburg Resource Area LOW 1705 N. Valley Drive Las Cruces, NM 88004
		White Sands Resource Area LOW 317 N. Main P.O. Box 1420 Las Cruces, NM 88004
		Socorro Resource Area MEDIUM 198 Neel Avenue, NW P.O. Box 1219 Socorro, NM 87801
	Tulsa District Office 6136 East 32nd Place Tulsa, OK 74135 MEDIUM	Oklahoma Res. Area Headqts. MEDIUM 200 NW Fifth, Room 548 Oklahoma City, OK 73102
	Roswell District Office 1717 W. Second Street Featherstone Farms Bldg. P.O. Box 1397 Roswell, NM 88201 HIGH	Roswell Res. Area Headqts. HIGH 17171 W. Second Street Featherstone Farms Bldg. P.O. Box 1397 Roswell, N. 88201
		Carlsbad Res. Area Headqts. HIGH Federal Bldg., Room 163 114 S. Halaguena P.O. Box 1778 Carlsbad, NM 88220

TOTAL: 1 - State Office
4 - District Offices
10 - Resource Area Offices

STATE OFFICE	DISTRICT OFFICES	AREA OFFICES	
REGON			
Oregon State Office 825 N.E. Multnomah St. P.O. Box 2965 Portland, OR 97208 MEDIUM	Burns District Office 74 S. Alvord Street Burns, OR 97720 MEDIUM	Three Rivers Res. Area 74 S. Alvord Street Burns, OR 97720	HIGH
		Andrews Resource Area 74 S. Alvord Street Burns, OR 97720	MEDIUM
	Coos Bay District Office 333 S. Fourth Street Coos Bay, OR 97420 MEDIUM	Myrtlewood Resource Area 333 S. Fourth Street Coos Bay, OR 97420	MEDIUM
		Tioga Resource Area 333 S. Fourth Street Coos Bay, OR 97420	MEDIUM
		Umpqua Resource Area 333 S. Fourth Street Coos Bay, OR 97420	MEDIUM
	Eugene District Office 1255 Pearl Street P.O. Box 10226 Eugene, OR 97440 MEDIUM	Noti Resource Area 1255 Pearl Street P.O. Box 10226 Eugene, OR 97440	LOW
		Dorena Resource Area 1255 Pearl Street P.O. Box 10226 Eugene, OR 97440	LOW
		Mohawk Resource Area 1255 Pearl Street P.O. Box 10226 Eugene, OR 97440	MEDIUM
		Lorane Resource Area 1255 Pearl Street P.O. Box 10226 Eugene, OR 97440	MEDIUM
	Lakeview District Office 1000 S. 9th P.O. Box 151 Lakeview, OR 97630 LOW	Lost River Resource Area 1000 S. 9th P.O. Box 151 Lakeview, OR 97630	LOW
		Warner Lake Resource Area 1000 S. 9th P.O. Box 151 Lakeview, OR 97630	LOW
		High Desert Resource Area 1000 S. 9th P.O. Box 151 Lakeview, OR 97630	MEDIUM

STATE OFFICE	DISTRICT OFFICES	AREA OFFICES	
OREGON (continued)			
	Medford District Office 3040 Biddle Road Medford, OR 97501 HIGH	Klamath Resource Area 3040 Biddle Road Medford, OR 97501	HIGH
		Butte Falls Resource Area 3040 Biddle Road Medford, OR 97501	HIGH
		Jacksonville Resource Area 3040 Biddle Road Medford, OR 97501	HIGH
		Grants Pass Resource Area 3040 Biddle Road Medford, OR 97501	HIGH
		Glendale Resource Area 3040 Biddle Road Medford, OR 97501	MEDIUM
	Prineville District Office 185 E. Fourth Street P.O. Box 550 Prineville, OR 97754 MEDIUM	Central Oregon Res. Area 185 E. Fourth Street P.O. Box 550 Prineville, OR 97754	MEDIUM
		Deschutes Resource Area 185 E. Fourth Street P.O. Box 550 Prineville, OR 97754	HIGH
	Roseburg District Office 777 NW Garden Valley Road Roseburg, OR 97470 MEDIUM	North Umpqua Resource Area 777 NW Garden Valley Road Roseburg, OR 97470	LOW
		South Umpqua Resource Area 777 NW Garden Valley Road Roseburg, OR 97470	MEDIUM
		Dillard Resource Area 777 NW Garden Valley Road Roseburg, OR 97470	LOW
		Drain Resource Area 777 NW Garden Valley Road Roseburg, OR 97470	LOW

STATE OFFICE	DISTRICT OFFICES	AREA OFFICES	
REGON (continued)			
	Salem District Office 1717 Fabry Road SE P.O. Box 3227 Salem, OR 97302 MEDIUM	Santiam Resource Area 1717 Fabry Road SE P.O. Box 3227 Salem, OR 97302	LOW
		Alsea Resource Area 1717 Fabry Road SE P.O. Box 3227 Salem, OR 97302	MEDIUM
		Yamhill Resource Area 1717 Fabry Road SE P.O. Box 3227 Salem, OR 97302	LOW
		Clackamas Resource Area 1717 Fabry Road SE P.O. Box 3227 Salem, OR 97302	LOW
		Tillamook Res. Area Headqts. 6615 Officers Row Tillamook, OR 97141	MEDIUM
	Spokane District Office E. 4217 Main Avenue Spokane, WA 99202 LOW	Basin Resource Area E. 4217 Main Avenue Spokane, WA 99202	LOW
		Border Resource Area E. 4217 Main Avenue Spokane, WA 99202	LOW
	Vale District Office 100 "E" Oregon Street P.O. Box 700 Vale, OR 97918 HIGH	N. Malheur Resource Area 100 "E" Oregon Street P.O. Box 700 Vale, OR 97918	HIGH
		S. Malheur Resource Area 100 "E" Oregon Street P.O. Box 700 Vale, OR 97918	MEDIUM
		Baker Resource Area P.O. Box 987 Baker, OR 97814	HIGH

TOTAL: 1 - State Office
10 - District Offices
34 - Resource Area Offices

UTAH

STATE OFFICE	DISTRICT OFFICES	AREA OFFICES	
Utah State Office 324 South State Street CFS Financial Center Building, Suite 301 Salt Lake City, UT 84111 HIGH	Salt Lake District Office 2370 South 2300 West Salt Lake City, UT 84111 LOW	Bear River Resource Area 2370 South 2300 West Salt Lake City, UT 84119	MEDIUM
		Pony Express Resource Area 2370 South 2300 West Salt Lake City, UT 84119	LOW
	Cedar City District Office 1579 N. Main Street P.O. Box 724 Cedar City, UT 84720 MEDIUM	Dixie Resource Area Headqts. First South Plaza, Suite 202 P.O. Box 726 St. George, UT 84770	HIGH
		Kanab Resource Area Headqts. 320 North First East Kanab, UT 84741	MEDIUM
		Escalante Res. Area Headqts. Escalante, UT 84726	LOW
		Beaver River Res. Area Hdqs. 444 S. Main Cedar City, UT 84720	MEDIUM
	Richfield District Office 150 E. 900 N. Richfield, UT 84701 MEDIUM	Warm Springs Resource Area P.O. Box 778 Fillmore, UT 84631	MEDIUM
		House Range Resource Area P.O. Box 778 Fillmore, UT 84631	LOW
		Henry Mountain Resource Area P.O. Box 99 Hanksville, UT 84734	LOW
		Sevier River Resource Area 180 N. 100 E., Suite F Richfield, UT 84701	MEDIUM
	Moab District Office 125 W. 2nd S. P.O. Box 970 Moab, UT 84532 HIGH	San Juan Resource Area 284 S. First West P.O. Box 7 Monticello, UT 84535	HIGH

STATE OFFICE	DISTRICT OFFICES	AREA OFFICES	
TAH (continued)			
		Grand Resource Area Sand Flats Road P.O. Box M Moab, UT 84532	HIGH
		Price River Resource Area 900 N. Seventh East P.O. Drawer AB Price, UT 84501	MEDIUM
		San Rafael Resource Area 900 N. Seventh East P.O. Drawer AB Price, UT 84501	HIGH
	Vernal District Office 170 S. 500 E. Vernal, UT 84078 MEDIUM	Diamond Mountain Res. Area 170 S. 500 E. Vernal, UT 84078	MEDIUM
		Book Cliffs Resource Area 170 S. 500 E. Vernal, UT 84078	HIGH

TOTAL:
1 - State Office
5 - District Offices
18 - Resource Area Offices

SPATIALGRAPHIC QUERY REQUIREMENTS

INPUT

1. This questionnaire should be completed for each individual site.

   a. BLM Headquarters
   b. Denver Service Center
   c. State Offices
   d. District Offices
   e. Resource Areas
   f. External Users

   N/A

2. Average number of queries per hour, day, or week

   82000 queries/day for all sites => 330 queries/day/site

3. Maximum number of queries per hour, day, or week

   164,000 queries/day for all sites => 660 queries/day/site

4. Response time for queries by user class

   a. Maximum Allowable Time --
   b. Average Allowable Time --
   c. Minimum Allowable Time --

   average time 1 to 2 minutes

5. Average number of characters per query

   100 to 200.

6. Preferred mode of interaction

   a. Batch --
   [✓ b. Interactive --]

MGMT INFORMATION

ALPHANUMERIC OUTPUT REPORTING REQUIREMENTS BY SITE

This questionnaire refers to all outputs, not just the outputs identified in the reporting module.

1. Questionare to be completed for each individual site

    a. BLM Headquarters
    b. Denver Service Center
    c. State Offices
    d. District Offices
    e. Resource Areas

2. Number, Version, Name of Each Report

3. Frequency

    a. Average and maximum Number of times each report is produced per second, minute, hour, day, week, or month

    b. Average and maximum number of times each report is requested per second, minute, hour, day, week, or month

4. Performance Requirements

    (Number of seconds, minutes, or hours from request submission to receipt of each report)

    a. Maximum Allowable Time --
    b. Average Required Time --
    c. Minimum Desired Time --

5. Average number of characters used to produce each report

    a. Number of Pages --
    OR
    b. Number of Screens --

6. Average number of lines per page or screen of each report

YOMING

STATE OFFICE	DISTRICT OFFICES	AREA OFFICES	
Wyoming State Office 2515 Warren Avenue P.O. Box 1828 Cheyenne, WY 820001 HIGH	Casper District Office 951 Rancho Road Casper, WY 82601 HIGH	Platte River Resource Area 951 Rancho Road Casper, WY 82601	HIGH
		Buffalo Resource Area 300 Spruce Street Buffalo, WY 82834	HIGH
		Newcastle Resource Area P.O. Box 219 Newcastle, WY 82701	HIGH
	Rawlins District Office P.O. Box 670 1300 - Third Street Rawlins, WY 82301 HIGH	Divide Resource Area P.O. Box 670 1300 - Third Street Rawlins, WY 82301	MEDIUM
		Medicine Bow Resource Area P.O. Box 670 1300 - Third Street Rawlins, WY 82301	LOW
		Lander Resource Area P.O. Box 589 Jett Bldg., Highway 287 So. Lander, WY 82520	HIGH
	Rock Springs Dist. Office P.O. Box 1869 Highway 191 N. Rock Springs, WY 82901 HIGH	Big Sandy Resource Area P.O. Box 1170 79 Winston Drive Rock Springs, WY 82902	MEDIUM
		Salt Wells Resource Area P.O. Box 1170 79 Winston Drive Rock Springs, WY 82902	HIGH
		Kemmerer Resource Area P.O. Box 632 Kemmerer, WYk 83101	HIGH
		Pinedale Resource Area P.O. Box 768 Molyneux Building Pinedale, WY 83941	MEDIUM

STATE OFFICE	DISTRICT OFFICES	AREA OFFICES	
YOMING (continued)	Worland District Office P.O. Box 119 1700 Robertson Avenue Worland, WY 82401 LOW	Grass Creek Resource Area P.O. Box 119 1700 Robertson Avenue Worland, WY 82401	LOW
		Washakie Resource Area P.O. Box 119 1700 Robertson Avenue Worland, WY 82401	LOW
		Cody Resource Area Headqts. P.O. Box 518 Federal Building 1131 13th Street Cody, WY 82414	MEDIUM

TOTAL: 1 - State Office
4 - District Offices
13 - Resource Area Offices

U.S. FOREST SERVICE FIELD OFFICES

REGIONAL HEADQUARTERS AND NATIONAL FORESTS

NORTHERN REGION

Federal Building
P.O. Box 7669
Missoula, MT 59807

Idaho

Clearwater	Orofino	83544
Idaho Panhandle Nat'l Forests[1]	Coeur d'Alene	83814
Coeur d'Alene		
Kaniksu		
St. Joe		
Nezperce	Grangeville	83530

Montana

Beaverhead	Dillon	59725
Bitterroot	Hamilton	59840
Custer	Billings	59103
Deerlodge	Butte	59703
Flathead	Kalispell	59901
Gallatin	Bozeman	59715
Helena	Helena	59626
Kootenai	Libby	59923
Lewis and Clark	Great Falls	59403
Lolo	Missoula	59801

SOUTHWESTERN REGION

Federal Building
517 Gold Avenue SW
Albuquerque, NM 87102

Arizona

Apache-Sitgreaves[1]	Springerville	85938
Coconino	Flagstaff	86001
Coronado	Tucson	85701
Kaibab	Williams	86046
Prescott	Prescott	86301
Tonto	Phoenix	85038

New Mexico

Carson	Taos	87571
Cibola	Albuquerque	87112
Gila	Silver City	88061
Lincoln	Alamogordo	88310
Santa Fe	Santa Fe	87501

PACIFIC SOUTHWEST REGION

630 Sansome Street
San Francisco, CA 9411

California

Angeles	Pasadena	91101
Cleveland	San Diego	92188
Eldorado	Placerville	95667
Inyo	Bishop	93514
Klamath	Yreka	97097
Lassen	Susanville	96130
Los Padres	Goleta	93117
Mendocino	Willows	95988
Modoc	Alturas	96101
Plumas	Quincy	95971
San Bernardino	San Bernardino	92408
Sequoia	Porterville	93257
Shasta-Trinity[1]	Redding	97001
Sierra	Fresno	93271
Six Rivers	Eureka	95501
Stanislaus-Calaveras Big Tree[1]	Sonora	95370
Tahoe	Nevada City	95959

PACIFIC NORTHWEST REGION

319 SW Pine Street
P.O. Box 3623
Portland, OR 97208

Oregon

Deschutes	Bend	97701
Fremont	Lakeview	97630
Malheur	John Day	97845
Mt. Hood	Gresham	97030
Ochoco	Prineville	97754
Rogue River	Medford	97501
Siskiyou	Grants Pass	97526
Siuslaw	Corvallis	97339
Umatilla	Pendleton	97801
Umpqua	Roseburg	97470
Wallowa-Whitman[1]	Baker	97814
Wilamette	Eugene	97440
Winema	Klamath Falls	97601

Washington

Colville	Colville	99114
Gifford Pinchot	Vancouver	98660
Mt. Baker-Snoqualmie[1]	Seattle	98104
Okanogan	Okanogan	98840
Olympic	Olymia	98507
Wenatchee	Wenatchee	98801

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[1] Two or more separately proclaimed National Forests under one supervisor.

REGIONAL HEADQUARTERS AND NATIONAL FORESTS (continued)

ROCKY MOUNTAIN REGION
1177 West 8th Avenue
P.O. Box 25127
Lakewood, CO 80225

Colorado

Arapahoe-Roosevelt[1]	Ft. Collins	80521
Grand Mesa, Uncompahgre, and Gunnison[1]	Delta	81416
Pike-San Isabel[1]	Pueblo	81008
Rio Grande	Monte Vista	81144
Routt	Steamboat Springs	80477
San Juan	Durango	81301
White River	Glenwood Springs	83602

Nebraska

Nebraska-Samuel R. McKelvie[1]	Chadron	69337

South Dakota

Black Hills	Custer	57730

Wyoming

Bighorn	Sheridan	82801
Medicine Bow	Laramie	82070
Shoshone	Cody	82414

INTERMOUNTAIN REGION
Federal Building
324 25th Street
Ogeden, UT 84401

Idaho

Boise	Boise	83702
Caribou	Pocatello	83201
Challis	Challis	83226
Payette	McCall	83638
Salmon	Salmon	83467
Sawtooth	Twin Falls	83301
Targhee	St. Anthony	83445

Nevada

Humboldt	Elko	89801
Toiyabe	Reno	89501

Utah

Ashley	Vernal	84078
Dixie	Cedar City	84720
Fishlake	Richfield	84701
Manti-LaSal	Price	84501
Uinta	Provo	84603
Wasatch-Cache[1]	Salt Lake City	84138

Wyoming

Bridger-Teton[1]	Jackson	83001

ALASKA REGION
Federal Office Building
P.O. Box 1628
Juneau, AD 99802

Alaska

Chugach	Anchorage	99508
Tongass-Chatham	Sitka	99835
Tongass-Ketchikan	Ketchikan	99901
Tongass-Stikine	Petersburg	99833

SOUTHERN REGION
1720 Peachtree Road NW
Atlanta, GA 30367

Alabama

National Forests in Alabama[1]	Montgomery	36107
Wm. B. Bankhead		
Conecuh		
Talladega		
Tuskegee		

Arkansas

Quachita	Hot Springs Nat'l Park	71901
Ozark-St. Francis[1]	Russelville	72801

Florida

National Forests in Florida[1]	Tallahassee	32308
Apalachicola		
Ocala		
Osceola		

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[1] Two or more separately proclaimed National Forests under one supervisor.

REGIONAL HEADQUARTERS AND NATIONAL FORESTS (continued)

EASTERN REGION

33 West Wisconsin Avenue
Milwaukee, WI 53203

Illinois		
Shawnee	Harrisburg	62946
Indiana and Ohio		
Wayne-Hoosier[1]	Bedford	47421
Michigan		
Hiawatha	Escanaba	49829
Huron-Manistee[1]	Cadillac	49601
Ottawa	Ironwood	49938
Minnesota		
Chippewa	Cass Lake	56633
Superior	Duluth	55801
Missouri		
Mark Twain	Rolla	65401
New Hampshire and Maine		
White Mountain	Laconia	03246
nnsylvania		
Allegheny	Warren	16365
Vermont		
Green Mountain	Rutland	05701
West Virginia		
Monongahela	Elkins	26241
Wisconsin		
Chequamegon	Park Falls	54552
Nicolet	Rhinelander	54501

SOUTHERN REGION (continued)

Georgia		
Chattahoochee and Oconee[1]	Gainesville	30501
Kentucky		
Daniel Boone	Winchester	40391
Louisiana		
Kisatchie	Pineville	71360
Mississippi		
National Forests in Mississippi	Jackson	38269
Bienville		
Delta		
DeSoto		
Holly Springs		
Homochitto		
Tombigbee		
North Carolina		
National Forests in North Carolina[1]	Asheville	28802
Croatan		
Nantahala		
Pisgah		
Uwharrie		
Puerto Rico		
Caribbean	Rio Piedras	00928
South Carolina		
Francis Marion and Sumter[1]	Columbia	29202
Tennessee		
Cherokee	Cleveland	37311
Texas		
National Forests in Texas[1]	Lufkin	75901
Angelina		
Davy Crockett		
Sabine		
Sam Houston		
Virginia		
George Washington	Harrisonburg	22801
Jefferson	Roanoke	24001

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[1] Two or more separately proclaimed National Forests under one supervisor.

TOTALS: Regions: 9 National Forests: 155 Forest Supervisors: 121

MINERALS MANAGEMENT SERVICE FIELD OFFICES

OCS REGIONAL OFFICES

Atlantic Region	Suite 610, 1951 Kidwell Drive	Vienna, VA	22180
Gulf of Mexico Region	P.O. Box 7944, 3301 N. Causeway Blvd.	Metairie, LA	70010
Pacific Region	1340 W. Sixth Street	Los Angeles, CA	90017
Alaska Region	P.O. Box 259	Anchorage, AK	99501

ACCOUNTING CENTER

Royalty Management Accounting Center	P.O. Box 25165	Lakewood, CO	80225

ADMINISTRATIVE SERVICE CENTERS

Southern Service Center	P.O. Box 7944, 3301 N. Causeway Blvd.	Metairie, LA	70010
Central Service Center	P.O. Box 25165	Lakewood, CO	80225
Alaska Service Center	Suite 201, 800 A Street	Anchorage, AK	99501

TOTALS: 8 - Field Offices

U.S. GEOLOGICAL SURVEY

WASHINGTON:

Washington Office National Center	12201 Sunrise Valley Drive	Reston, VA	22092
Eastern Region 27 States District of Columbia Puerto Rico Virgin Islands	109 National Center	Reston, VA	22092
Central Region 15 States	Box 25046, 510 Denver Federal Center	Denver, CO	80225
Western Region 8 States	345 Middlefield Road	Menlo Park, CA	94025

TOTALS: 1 - Washington Office   3 - Regional Offices

OFFICE OF SURFACE MINING

HEADQUARTERS

Department of the Interior
1951 Constitution Avenue, N.W.
Washington, D.C. 20240

ALABAMA

Birmingham Field Office
228 West Valley Avenue
Homewood, AL 35209

COLORADO

Division of Financial Management
Denver Federal Center, Bldg. 20
Denver, CO 80225

Technical Center West
Brooks Towers
1020 15th Street
Denver, CO 80202

ILLINOIS

Springfield Field Office
600 East Monroe Street, Room 20
Springfield, IL 62701

INDIANA

Indianapolis Field Office
46 East Ohio Street
Indinapolis, IN 46204

KENTUCKY

Lexington Field Office
340 Legion Drive, Suite 28
Lexington, KY 40504

London Area Office
P.O. Box 1048
London, KY 40504

Pikeville Area Office
First National Bank Building
334 Main Street
Pikeville, KY 41501

Madisonville Area Office
Segebarth Building, Box F
2100 North Main Street
Madisonville, KY 42431

MISSOURI

Kansas City Field Office
318 Grand Avenue, Scarritt Bldg.
Kansas City, MO 64106

NEW MEXICO

Albuquerque Field Office
219 Central Avenue, N.W.
Albuquerque, NM 87102

OHIO

Columbus Field Office
2242 South Hamilton Road, 2nd Floor
Columbus, OH 43232

OKLAHOMA

Tulsa Field Office
333 West 4th Street, Room 3432
Tulsa, OK 74103

Muskogee Area Office
125 South Main Avenue
3rd Floor, Room 3810
Muskogee, OK 74401

PENNSYLVANIA

Harrisburg Field Office
101 South 2nd Street, Suite L-4
Harrisburg, PA 17101

Wilkes-Barre Area Office
20 N. Penn Avenue, Room 3107
Wilkes-Barre, PA 18701

Johnstown Area Office
Penn. Traffic Building, Room 360
319 Washington Street
Johnstown, PA 15901

PENNSYLVANIA, TECHNICAL CENTER EAST

Ten Parkway Center
Pittsburg, PA 18701

Wilkes-Barre Area Office
20 North Penn Avenue, Room 3323
Wilkes-Barre, PA 15901

TENNESSEE

Knoxville Field Office
530 Gay Street
Knoxville, TN 37902

OFFICE OF SURFACE MINING (continued)

TENNESSEE (continued)

Chattanooga Area Office
900 Georgia Avenue, Room 30
Chattanooga, TN 37402

Norris Area Office
P.O. Box 295
Norris, TN 37828

Norris Area Office
TVA Walnut Orchard
Highway 141
Norris, TN 37828

VIRGINIA

Big Stone Gap Field Office
P.O. Box 626
Big Stone, Gap, VA 24219

Lebanon Area Office
Flannagan & Carroll Streets
Lebanon, VA 24266

Lebanon Area Office
P.O. Box 487
Lebanon, VA 24266

WEST VIRGINIA

Charleston Field Office
603 Morris Street
Charleston, W. VA 25301

Beckley Area Office
119 Appalachian Drive
Beckley, W. VA 25801

Morgantown Area Office
P.O. Box 886
Morgantown, W. VA 26507

Morgantown Area Office
75 High Street
Morgantown, W. VA 26507

WYOMING

Casper Field Office
Freden Building
935 Pendell Boulevard
Mills, Wyoming 82644

Casper Field Office
P.O. Box 1420
Mills, Wyoming 82644

TOTALS:

1 - Headquarters Office
13 - Field Offices
13 - Area Offices
3 - Other Offices

BUREAU OF INDIAN AFFAIRS AREA AND FIELD OFFICES

ABERDEEN AREA OFFICE	Federal Building 115 4th Avenue, S.E.	Aberdeen, SD	57401
Cheyenne River Agency	Box 325	Eagle Butte, ND	57625
Crow Creek Agency	P.O. Box 616	Ft. Thompson, ND	57339
– Flandreau Indian School		Flandreau, SD	57028
Fort Berthold Agency		New Town ND	58763
Fort Totten Agency		Ft. Totten, ND	58335
Lower Brule Agency		Lower Brule, SD	57548
Pine Ridge Agency		Pine Ridge, SD	57770
Rosebud Agency		Rosebud, SD	57570
Sisseton Agency		Sisseton, SD	57262
Standing Rock Agency		Ft. Yates, ND	58538
Turtle Mountain Agency		Belcourt, ND	58316
– Wahpeton Indian School		Wahpeton, ND	58075
Winnebago Agency		Winnebago, NE	68071
Yankton Agency		Wagner, SD	57380
ALBUQUERQUE AREA OFFICE	P.O. Box 8327 5301 Central Avenue	Albuquerque, NM	87198
	19th and Stout Streets	Denver, CO	80202
Jicarilla Agency		Dulce, NM	87528
Laguna Agency	P.O. Box 1448	Laguna, NM	87026
Mescalero Agency		Mescalero, NM	88340
Northern Pueblos Agency	P.O. Box 849 Federal Post Office Building	Santa Fe, NM	87501
Ramah-Navajo Agency		Ramah, NM	87321
Southern Peueblos Agency	P.O. Box 1667	Albuquerque, NM	87103
Southern Ute Agency	P.O. Box 315	Ignacio, CO	81137
Ute Mountain Ute Agency		Towaoc, CO	81334
Zuni Agency	P.O. Box 338	Zuni, NM	87327

BUREAU OF INDIAN AFFAIRS AREA AND FIELD OFFICES (continued)

ANADARKO AREA OFFICE	P.O. Box 368	Anadarko, OK	73005
Anadarko Agency	P.O. Box 309	Anadarko, OK	73005
Concho Agency		Concho, OK	73022
Horton Agency	P.O. Box 31	Horton, KS	66439
Pawnee Agency	P.O. Box 440	Pawnee, OK	74058
Shawnee Agency	Federal Building	Shawnee, OK	74801
Concho Indian School	P.O. Box 8	Concho, OK	73022
Riverside Indian School	Riverside Indian School	Anadarko, OK	73005
Fort Sill Maintenance & Security Detachment		Lawton, OK	73502
Chilocco Maintenance & Security Detachment	P.O. Box 465	Newkirk, OK	74647
Haskell Indian Junior College		Lawrency, KS	66044
BILLINGS AREA OFFICE	316 N. 26th Street	Billings, MT	59101
Blackfeet Agency		Browning, MT	59417
Crow Agency		Crow Agency, MT	59022
Fort Belknap Agency	P.O. Box 80	Harlem, MT	59526
Fort Peck Agency	P.O. Box 637	Poplar, MT	59255
Northern Cheyenne Agency		Lame Deer, MT	59043
Rocky Boy's Agency		Box Elder, MT	59521
Wind River Agency		Ft. Washakie, WY	82514
EASTERN AREA OFFICE	1951 Constitution Avenue, NW	Washington, DC	20245
Cherokee Agency		Cherokee, NC	28719
Choctaw Agency	421 Powell	Philadelphia, MS	39350
Miccosukee Agency	P.O. Box 44021	Tamiami Station, FL	33144
New York Liaison Agency	Federal Building 100 S. Clinton Street	Syracuse, NY	13202
Seminole Agency	6075 Stirling Road	Hollywood, FL	33024

BUREAU OF INDIAN AFFAIRS AREA AND FIELD OFFICES (continued)

JUNEAU AREA OFFICE	P.O. Box 3-8000	Juneau, AK	99802
Anchorage Agency	P.O. Box 100120	Anchorage, AK	99510
Bethel Agency	P.O. Box 347	Bethel, AK	99559
Fairbanks Agency	101 12th Avenue, Box 16	Fairbanks, AK	99707
Nome Agency	P.O. Box 1108	Nome, AK	99762
+ Seattle Support Center	P.O. Box 80947	Seattle, WA	98108
Southeast Agency	P.O. Box 3-8000	Juneau, AK	99802
MINNEAPOLIS AREA OFFICE	15 South 5th St. - 6th Floor	Minneapolis, MN	55402
Great Lakes Agency		Ashland, WI	54806
Michigan Agency	Federal Square Office Plaza P.O. Box 884	Sault Ste. Marie, MI	49782
Minnesota Agency	RR #2 - F C 200	Cass Lake, MN	55372
+ Minnesota Sioux Area Field Office	2330 Sioux Trail NW	Prior Lake, MN	55372
Red Lake Agency		Red Lake, MN	56671
+ Sac & Fox Area Field Office		Tama, IA	52339
MUSKOGEE AREA OFFICE	Old Federal Building	Muskogee, OK	74401
Ardmore Agency	P.O. Box 997	Ardmore, OK	73401
Okmulgee Agency	P.O. Box 370	Okmulgee, OK	74447
Osage Agency		Pawhuska, OK	74056
Miami Agency	P.O. Box 391	Miami, OK	74354
Tahlequah Agency	P.O. Box 828	Tahlequah, OK	74465
Talihina Agency	P.O. Drawer H	Talihina, OK	74571
Wewoka Agency	P.O. Box 1060	Wewoka, OK	74884

BUREAU OF INDIAN AFFAIRS AREA AND FIELD OFFICES (continued)

NAVAJO AREA OFFICE	P.O. Box M	Window Rock, AZ	86515
→ Navajo Area Office (Administration)	P.O. Box 1060	Gallup, NM	87301
Chinle Agency	P.O. Box 7H	Chinle, ZA	86503
Eastern Navajo Agency	P.O. Box 328	Crownpoint, NM	87313
Fort Defiance Agency	P.O. Box 619	Fort Defiance, AZ	86504
- Navajo Irrigation Project	3539 East 30th Street NW Energy Building, Room 103	Farmington, NM	87401
Shiprock Agency	P.O. Box 966	Shiprock, NM	87420
Western Navajo Agency	P.O. Box 127	Tuba City, AZ	86045
PHOENIX AREA OFFICE	3030 N. Central P.O. Box 7007	Phoenix, AZ	85011
Colorado River Agency	Route 1 Box 9-C	Parker, AZ	85344
Eastern Nevada Agency		Elko, NV	89801
Fort Apache Agency		Whiteriver, AZ	85941
Fort Yuma Agency	P.O. Box 1591	Yuma, kAZ	85364
Hopi Agency		Keams Canyon, AZ	86034
Papago Agency		Sells, AZ	85634
Pima Agency		Sacaton, AZ	85247
Salt River Agency	Rt. 1, P.O. Box 117	Scottsdale, AZ	85256
San Carlos Agency		San Carlos, AZ	85550
- San Carlos Irrigation Proj.		Coolidge, AZ	85228
Truxton Canon Agency		Valentine, AZ	86347
Uintah & Ouray Agency		Fort Duchesne, UT	84026
Western Nevada Agency		Stewart, NV	89437

BUREAU OF INDIAN AFFAIRS AREA AND FIELD OFFICES (continued)

PORTLAND AREA OFFICE	P.O. Box 3785	Portland, OR	97208
- Chenewa School	3700 Hazen Green Road, NE	Salem, OR	97203
Colville Agency	P.O. Box 111 - 0111	Nespelem, WA	99155
Fort Hall Agency		Fort Hall, ID	83203
Flathead Agency	P.O. Box A	Ronan, MT	59864
+ Meltakatla Field Station	P.O. Box 560	Metlakatla, AK	99926
Northern Idaho Agency	P.O. Drawer 277	Lapwai, ID	83540
Spokane Agency	P.O. Box 389	Wellpinit, WA	99040
Umatilla Agency	P.O. Box 520	Pendleton OR	97801
→ Wapato Irrigation Project	P.O. Box 220	Wapato, WA	98951
Olympic Peninsula Agency	P.O. Box 120 Post Office Building	Hoquiam, WA	98550
Siletz Agency	P.O. Box 539	Siletz, OR	97380
Warm Springs Agency		Warm Springs, OR	97761
Puget Sound Agency	3006 Colby Street Federal Building	Everett, WA	98201
Yakima Agency	P.O. Box 632	Toppenish, WA	98948
SACRAMENTO AREA OFFICE	Federal Office Building 2800 Cottage Way	Sacramento, CA	95825
Central California Agency	1800 Tribute Road P.O. Box 15740	Sacramento, CA	95813
Hoopa Agency	P.O. Box 367	Hoopa, CA	95546
+ Palm Springs Field Office	P.O. Box 2245 441 S. Calle Encilia, Suite 8	Palm Springs, CA	92262
Southern Calif. Agency	5750 Division Street Suite 201	Riverside, CA	92506

Table 1A Areas, Acres and Township by Admin/Geo State 6/27/82- rev 2/12/85

	ACRES					TOWNSHIPS			
ADMIN GEO STATE	Federal Interest			Total Acres in State	Pct of Acres Fed Int	Total Townships Public Land Survey or Equiv	Pct Twps with Fed Int	Fed Inter Status Data	Land Descrip Data
	Surface and Subsurface	Subsurf Only	Total						
1	2[1]	3[2]	4	5[3]	6	7	8	9	10
Alaska	326,925,561	19,192	326,944,753	375,303,680	87.11	18,500	100	18,500	18,500
Arizona	32,014,276	2,681,297	34,695,573	72,901,760	47.59	3,472	100	3,472	3,472
California	46,702,125	2,513,745	49,215,870	101,563,520	49.98	4,836	100	4,836	4,836
Colorado	23,607,947	5,873,247	29,481,194	66,718,080	44.19	3,117	100	3,117	3,117
Kansas	733,015	55,805	788,820	52,648,960	1.50	2,507	15	376	2,507
CO	24,340,952	5,929,052	30,270,014	119,367,040	25.36	5,684	63	3,553	5,624
Idaho	33,759,572	1,793,948	35,553,520	53,476,480	66.48	2,546	100	2,546	2,546
Montana	27,740,572	11,668,894	39,409,466	94,168,320	41.85	4,484	100	4,484	4,484
N. Dakota	2,386,385	4,784,548	7,170,933	45,225,600	15.86	2,154	50	1,077	2,154
S. Dakota	3,492,309	1,759,852	5,252,161	49,310,080	10.65	2,348	40	939	2,348
MT	33,619,266	18,213,294	51,832,560	188,704,000	27.46	8,986	72	6,500	8,986
Nevada	60,506,114	244,916	60,751,030	70,745,600	85.87	3,369	100	3,369	3,369
New Mexico	25,873,745	9,269,336	35,143,081	77,866,240	45.13	3,708	100	3,708	3,708
Oklahoma	1,589,953	59,698	2,649,651	44,748,160	3.69	2,131	15	320	2,131
Texas	3,408,655	0	3,498,655	171,096,320	2.00	8,264	2	148	148
NM	30,872,353	9,329,034	40,201,687	293,710,720	13.69	14,103	29	4,176	5,987
Oregon	32,313,687	1,660,189	33,973,876	62,067,840	54.74	2,956	100	2,956	2,956
Washington	12,472,704	280,281	12,752,985	43,642,880	29.22	2,078	70	1,455	2,078
OR	44,786,391	1,940,470	46,726,861	105,710,720	44.20	5,034	87	4,411	5,034
Utah	33,529,968	1,201,946	34,731,914	54,346,240	63.91	2,589	100	2,589	2,589
Wyoming	30,329,555	12,265,083	42,594,638	62,664,960	67.97	2,984	100	2,984	2,984
Nebraska	712,173	76,217	788,390	49,425,280	1.60	2,354	15	354	2,354
WY	31,041,728	12,341,300	43,383,028	112,090,240	39.	5,338	62	3,338	5,338
Eastern States[4]									
PLS St	23,876,792	215,905	24,092,697	451,502,336	5.33	21,792	29.4	6,414	21,792
Non PLS	15,019,646	0	15,019,497	310,127,744	4.84	14,967	4.4	658	658
ES	38,896,278	215,905	39,112,194	761,630,080	5.13	36,759	19.2	7,072	22,450
1050 17 ST	371,172,745	56,189,002	427,362,057	1,172,616,320	36.44	55,957	69.3	38,790	47,781
1150 48 ST	410,069,023	56,404,907	466,474,251	1,934,246,400	24.11	92,716	49.4	45,862	70,231
1250 49 ST	736,994,584	56,424,099	793,419,004	2,309,550,080	34.35	111,216	57.8	64,362	88,731

[1] Table 1 - 1980 PLS Detailed by Agency, Table 9

[1] Table 17 - 1980 PLS Pat 1949-80 omitted 9.4 mill Ac not Spec by St.

[3] 1980 PLS Table 1

[4] See Table 1B for detailed by geostate Non-PLS

Table 1B Areas, Acres and Township by Admin/Geo State

Ohio	345,309	782	34,609	26,382,080	1.31	1,273	15	191	891
	ACRES					TOWNSHIPS			
ADMIN GEO STATE	Federal Interest			Total Acres in State	Pct of Acres Fed Int	Total Townships Public Land Survey or Equiv	Pct Twps with Fed Int	Fed Inter Status Data	Land Descrip Data
	Surface and Subsurface	Subsurf Only	Total						
1	2	3	4	5	6	7	8	9	10
PLS						PLS			
Illinois	606,597	754	607,351	36,096,000	1.68	1,742	10	174	1,742
Indiana	496,647	0	496,647	23,226,240	2.14	1,120	20	224	1,120
Iowa	227,448	359	227,807	36,025,600	0.63	1,739	5	87	1,739
Michigan	3,467,376	5,196	3,472,572	37,258,240	9.32	1,798	35	629	1,798
Minnesota	3,423,004	243	3,423,247	53,803,520	6.36	2,597	30	779	2,597
Missouri	2,195,583	166	2,195,749	44,599,040	4.92	2,153	10	215	2,153
Ohio	241,716	782	242,498	18,467,456	1.32	891	21	186	891
Wisconsin	1,867,735	1,546	1,869,281	35,938,560	5.20	1,735	15	260	1,735
Mil PLS Tot	12,526,106	9,046	12,535,152	285,414,656	4.40	13,775	19	2,554	13,775
Non-PLS					Fed	Acres23,040	Fed Acr23,040		
Connecticut	9,337	0	9,337	3,205,760	0.30	155	0.6	1	1
Delaware	40,852	0	40,852	1,316,480	3.11	63	3.2	2	2
Dist of Col	12,829	0	12,829	42,880	29.92	2	50.0	1	1
Maine	134,802	0	134,802	21,257,600	0.64	1,026	0.6	6	6
Maryland	203,010	0	203,010	6,769,280	3.00	327	2.8	9	9
Mass'setts	79,897	0	79,897	5,284,480	1.52	255	1.5	4	4
New Hamp.	721,889	0	721,889	5,954,460	12.13	287	11.1	32	32
New Jersey	151,530	0	151,530	5,015,040	3.03	242	2.9	7	7
New York	245,915	0	245,915	31,728,640	0.78	1,531	0.7	11	11
Ohio	103,592	0	103,593	7,914,624	1.31	382	1.3	5	5
Penn.	732,565	0	732,565	29,013,120	2.53	1,400	2.3	32	32
R. Island	8,010	0	8,010	776,960	1.04	37	2.7	1	1
Vermont	295,562	0	295,562	6,149,760	4.81	297	4.4	13	13
W. Virginia	1,097,058	0	1,097,058	15,475,840	7.09	747	6.4	48	48
Non-PLS Mil	3,836,848	0	3,836,848	139,905,024	2.74	6,751	2.5	172	172
Tot Mil DO	16,362,954	9,046	16,372,001	425,319,680	3.84	20,526	13.3	2,726	13,947
ES Jack PLS									
Alabama	1,122,288	80,450	1,202,738	33,029,760	3.64	1,594	55	877	1,594
Arkansas	3,358,291	17,795	3,376,086	33,986,560	9.93	1,641	40	656	1,641
Florida	4,040,945	75,237	4,116,182	37,478,400	10.98	1,809	30	543	1,809
Louisiana	1,098,595	22,172	1,120,767	31,054,720	3.61	1,499	60	900	1,499
Mississippi	1,730,567	11,205	1,741,772	30,538,240	5.70	1,474	60	884	1,474
Jack PLS tl	11,350,686	206,859	11,557,545	166,087,680	6.96	8,017	48	3,860	8,017
ES									
Jack NonPLS					Fed	Acres23,040	Fed Acr23,040		
Georgia	2,277,361	0	2,277,361	37,680,640	6.05	1,819	5.5	100	100
Kentucky	1,414,351	0	1,414,351	25,852,800	5.48	1,248	4.9	61	61
N. Carolina	2,050,852	0	2,050,852	33,655,040	6.10	1,624	5.5	89	89
S. Carolina	1,176,390	0	1,176,390	19,875,200	5.92	959	5.3	51	51
Tennessee	1,853,936	0	1,853,936	27,036,160	6.86	1,305	6.1	80	80
Virginia	2,409,748	0	2,409,748	26,122,880	9.23	1,261	8.3	105	105
Jack NonPLS	11,182,638	0	11,182,638	170,222,720	6.57	8,216	5.9	486	486
Tot Jack DO	22,533,324	207,859	22,740,183	336,310,400	6.77	16,133	26.7	4,346	8,503

QUESTIONNAIRE - Encl. 2

A L M R S

AUTOMATED REQUIREMENTS DOCUMENT OUTLINE

ENCL 2

AUTOMATED REQUIREMENTS DOCUMENT OUTLINE

BLM should provide a narrative description of the mission of the BLM office types, listed below, as it relates to ALMRS once automated. The description should include inside-the-office (non-deployed) and field (deployed) requirements.

A. Denver Service Center
B. BLM Headquarters
C. State Offices
D. District Offices
E. Resource Areas
F. External Users

II. USER IDENTIFICATION

BLM should provide a description of ALMRS user types along with the number of users by typein each location.

III. AUTOMATED REQUIREMENTS WITHIN EACH MODULE

BLM should provide a narrative discussion and matching flow chart explaining the input, processing, and output components of the manual, automated and new ALMRS functions for each of the following modules:

A. Case Processing Module

    1. Case Receiving
    2. Pre-Authorization
    3. Post-Authorization
    4. Record Maintenance

B. Query Module

C. Management Information and Other Reporting

IV. AUTOMATED ALMRS DATA HANDLING REQUIREMENTS

BLM should document the data handling requirements for ALMRS. The documentation should relect the information collected for the attached FEDSIM questionnaires and should include privacy/security requirements.

V. ALMRS STORAGE REQUIREMENTS

BLM should document the current amount of data stored in ALMRS once automated, with growth estimates for the ALMRS life cycle. The data should reflect the information in the attached FEDSIM questionnaires and should be in as small a unit as possible.

VI. ALMRS DATA VALIDITY AND AVAILABILITY REQUIREMENTS

BLM should provide a narrative description of the following data validity and availability requirements:

A. Logging/journalizing/checkpointing requirements
B. Back-up and redundancy requirements

VII. MANUAL AND AUTOMATED INTERFACES TO OTHER SYSTEMS

BLM should provide a narrative description of each manual and automated interface between ALMRS and systems both internal and external to BLM. The description should reflect the information collected for the attached FEDSIM questionnaires.

→ BLM

MSG logged on computer

History data

Recovery info of system files

HW and Communications

How many times

Preventive / Corrective

Msg / Traffic req for log

for ½ minute

Reliability requirements

FEDSIM QUESTIONNAIRES

ATTACHMENT 3

VI. ALMRS DATA VALIDITY AND AVAILABILITY REQUIREMENTS

BLM should provide a narrative description of the following data validity and availability requirements:

A. Logging/journalizing/checkpointing requirements
B. Back-up and redundancy requirements

VII. MANUAL AND AUTOMATED INTERFACES TO OTHER SYSTEMS

BLM should provide a narrative description of each manual and automated interface between ALMRS and systems both internal and external to BLM. The description should reflect the information collected for the attached RESNIR questionnaires.

→ BLM
MS logged on computer
History data
recovery of [illegible]
H/W and Communications
How many times
Procedure / Condition
17 traffic [illegible]
[illegible]
Establish requirements

1992

ALPHANUMERIC and Non-Spatial Graphic INPUT REQUIREMENTS BY SITE

~~CASE RECEIVING~~ Case Processing

1. This questionnaire should be completed for each individual site.

   a. BLM Headquarters
   b. Denver Service Center
   c. State Offices
   d. District Offices
   e. Resource Areas
   f. External Users

   Ans. value of data per site

   N/A

2. Average and maximum number of cases received per hour, day, week or month for each case class

   average = 450,000 Cases/year are the whole system

3. Average number of data elements per case received for each class

   N/A

4. Average number of characters per data element per case by class

   N/A

5. Time involved in entering case information prior to validation of application data

   a. Maximum Allowable Time -- 10 minutes
   b. Average Required Time -- 5 minutes
   c. Minimum Desired Time -- 1 minutes

6. Time required to validate a case processing application with validation of application data

   a. Maximum Allowable Time -- 1 minute
   b. Average Required Time -- 1 minute
   c. Minimum Desired Time -- $\frac{1}{2}$ minutes

7. Preferred mode of entry

   a. Batch -- ✓
   b. Interactive --

8. Average number of data bases involved per access per case by class

   10

9. Average level of data base activity involved per case by data base (by number of data elements involved: high, medium, low)

   5 H
   5 M.

ALPHANUMERIC INPUT REQUIREMENTS BY PRE-AUTHORIZATION PROCESSING

1. This questionnaire should be completed for each individual site.

   a. BLM Headquarters
   b. Denver Service Center
   c. State Offices
   d. District Offices
   e. Resource Areas
   f. External Users

2. Average and maximum number of cases worked per hour, day, week or month by case class

3. Average number of accesses per case discussed in Item #2

4. Average number of characters per access discussed in Item #3

5. Response time per access per case per year by class

   a. Maximum Allowable Time --
   b. Average Required Time --
   c. Minimum Desired Time --

6. Preferred mode of interaction

   a. Batch --
   b. Interactive --

7. Average number of data bases involved per access per case by class

8. Average level of data base activity involved per case by data base (by number of data elements involved: high, medium, low)

~~and Non-Spatial~~ Mgt. Info X

ALPHANUMERIC INPUT REQUIREMENTS BY POST-AUTHORIZATION PROCESSING

1. This questionnaire should be completed for each individual site.

   a. BLM Headquarters
   b. Denver Service Center
   c. State Offices
   d. District Offices
   e. Resource Areas
   f. External Users

2. Average and maximum number of cases worked per hour, day, week or month by case class

3. Average number of accesses per case discussed in Item #2

4. Average number of characters per access discussed in Item #3

5. Response time per access per case per year by class

   a. Maximum Allowable Time --
   b. Average Required Time --
   c. Minimum Desired Time --

6. Preferred mode of interaction

   a. Batch --
   b. Interactive --

7. Average number of data bases involved per access per case by class

8. Average level of data base activity involved per case by data base (by number of data elements involved: high, medium, low)

ALPHANUMERIC QUERY REQUIREMENTS

INPUT

1. This questionnaire should be completed for each individual site.

   a. BLM Headquarters
   b. Denver Service Center
   c. State Offices
   d. District Offices
   e. Resource Areas
   f. External Users

   N/A

2. Average number of queries per hour, day, or week

   410,800 queries/day for all sites =>1650 queries/day/si

3. Maximum number of queries per hour, day, or week

   821,600 queries/day for all sites => 3300 queries/day/site

4. Response time for queries by user class

   a. Maximum Allowable Time --
   b. Average Allowable Time --
   c. Minimum Allowable Time --

   } ½ minute average time

5. Average number of characters per query

   100

6. Preferred mode of interaction

   a. ~~Batch~~
   b. [✓ Interactive]

GRAPHIC OUTPUT REPORTING REQUIREMENTS BY SITE

This questionnaire refers to all graphical outputs.

1. This questionnaire should be completed for each individual site.

    a. BLM Headquarters
    b. Denver Service Center
    c. State Offices
    d. District Offices
    e. Resource Areas
    f. External Users

N/A

2. Number, Version, Name of Each Report

AD HOC no predefined reports (menu driven)

3. Frequency

    a. Average and maximum number of times each report is produced per second, minute, hour, day, week, or month

Average = 330/day/site, max = 660/day/site

    b. Average and maximum number of times each report is requested per second, minute, hour, day, week, or month

Average = 330/day/site, maximum = 660/day/site

4. Performance Requirements

(Number of seconds, minutes, or hours from request submission to receipt of each report)

    a. Maximum Allowable Time -- ?
    b. Average Required Time --
    c. Minimum Desired Time -- 0

5. Average amount of drawing for each report on paper and on screen (identify which)

    a. Light drawing 10% of time
    b. Medium drawing 50% " "
    c. Heavy drawing 40% " "

6. Average number of pages or screens (specify which) per report

3 pages/reports

7. Percentage of total output for screen and hardcopy (total should add to 100%)

Scaled Copies 80-100% hardcopy

Non-scaled Copies 50% hardcopy

8. Resolution required by user category

    [✓ a. High always]
    ~~b. Low~~

ALPHANUMERIC QUERY REQUIREMENTS

OUTPUT

1. This questionnaire should be completed for each individual site.

   a. BLM Headquarters
   b. Denver Service Center
   c. State Offices
   d. District Offices
   e. Resource Areas
   f. External Users

N/A

2. Average number of reports per query

   a. Pages -- 20 pp
   b. Screens --

3. Maximum number of reports per query

   a. Pages -- ?
   b. Screens -- 0

4. Average number of characters per report per query

   a. Pages -- ?
   b. Screens -- 0

5. Response time per report by user class

   a. Maximum Allowable Time --
   b. Average Allowable Time --
   c. Minimum Allowable Time --

6. Preferred mode of interaction

   [✓ a. Batch --]
   [✓ b. Interactive --] BOTH

SPATIAL GRAPHIC QUERY REQUIREMENTS

OUTPUT

1. This questionnaire should be repeated for each individual site.

   a. BLM Headquarters
   b. Denver Service Center
   c. State Offices
   d. District Offices
   e. Resource Areas
   f. External Users

N/A

2. Frequency

   a. Average and maximum number of times each report is produced per second, minute, hour, day, week, or month

   b. Average and maximum number of times each report is requested per second, minute, hour, day, week, or month

N/A

3. Performance Requirements

   (Number of seconds, minutes, or hours from request submission to receipt of each report)

   a. Maximum Allowable Time -- 10 minutes
   b. Average Required Time -- 3 minutes
   c. Minimum Desired Time -- 1 minute

4. Average amount of drawing for each report on paper and on screen

   a. Light Drawing 15% of time
   b. Medium Drawing 15% " "
   c. Heavy Drawing 70% " "

5. Average number of pages or screens (specify which) per report

   5 pages

6. Percentage of total output for screen and hardcopy (total should add to 100%) Scaled copies 80-100% hardcopy
   Non-scaled copies 50% hardcopy

7. Resolution required by user category

   [✓ a. High]
   b. Low

ALMRS DATA REQUIREMENTS

1. List of all the types of data to be maintained on the ALMRS hardware spatial, non-spatial, and alphanumeric

2. Maximum amount of ALMRS data by type if stored at all sites

   See charts

3. Maximum amount of ALMRS data at all sites by type if stored no lower than the District Office level

   See charts

4. Maximum amount of ALMRS DATA at all sites by type if stored no lower than the State Office level

   See charts

5. Maximum amount of ALMRS data if stored at one site

   See charts

6. List of all the types of data to be used in the ALMRS system but not maintained on the ALMRS hardware

7. Volumes of data transferred into the ALMRS system by type

8. Frequency of data transfers into the ALMRS system by type -- Maximum Values

9. Volumes of data transferred out of the ALMRS system by type

10. Frequency of data transfers out of the ALMRS system by type -- Maximum Values

Graphic Products.

PROGRAM-SUBJECT AREA:
Land Survey PLSS, ALMRS
APPLICATION PACKAGE(S):
Case Management Utilization Management, Land Records
TITLE OF OUTPUT:
Graphic Display of Specified Case/Use Type(s)

PAGE 1 of 3
L&M State Rep. Team 5
PREP BY: PLSS Tech. committee
DATE: July, 1983

ITEM NO.

(1) CONTENT, PURPOSE, USE: The data content will be a subset of MTP data tailored to display specific case types(s). Examples include oil & gas use plats, withdrawals & proposed public land sale areas, applications & stipulations. Use of these output continues & expands the uses now made of MTP & Use plats for visual examination, to analyze, and make sound decisions.

DATA ELEMENTS: (MARK D.E. USED IN CREATING OUTPUT BUT NOT ON OUTPUT WITH *)

NUMBER	TITLE	NUMBER	TITLE	NUMBER	TITLE
3138	Acres	2904	Aliquot Part	3444	Coordinate Series
2570	Land Res. Mgmt.	2487	Subdivision	New	Boundary Type
2572	Land Adjudication	2522	Width of ROW	~~2531~~	~~OWNERSHIP TYPE~~
2910	Action code	2507	US Right Title	2531	OWNERSHIP TYPE
2909	Action date	2912	Case Type		
2921	Action Remarks	New	Point Ident.		
2576	Code Agency	New	Polygon Ident.		
2303	Commodity Mineral	0002	Geo-state		
2520	Segreg Ext surface	2911	Serial No. Prefix		
2571	Segreg Ext. subsur	2906	Name Geographic		
2554	Serial number	New	Stipulations		
2902	Resource code	2574	Case Disposition		
1703	Meridian	2913	Name, Proprietor		
1695	Township	2907	Doc. I.D. No.		
1699	Range	2914	Percent of Intrst.		
2506	Section	3136	Interest/Relation.		
3131	Type of Survey	3139	Acreage Code		
3118	Survey No.	3443	Coordinate Type		
1020	SSN or Appl. No.	2920	Survey Note	0485	Land Grant Name
2523	Length of R-O-W	1237	Longitude	0066	ABBRV.
2577	Doc. I.D. No. Cata	2508	Commodity Leased	2901	Remarks
1236	Latitude	0100	Admin. State	2929	Agency Admin Area
2540	Stip for Auth.	3111	Quadrangle Name		

Graphic Products

PROGRAM-SUBJECT AREA: Land Survey PLSS, ALMRS

PAGE 1 of 3

L&M State Rep. Team 5

APPLICATION PACKAGE(S): Case Management Utilization Management, Land Records

PREP BY: PLSS Tech. committee

TITLE OF OUTPUT: Alphanumeric & Graphic Display for Proximity Analysis

DATE: July

ITEM NO.

(1) CONTENT, PURPOSE, USE: Legal land survey with status data identified as leaseable with proximity location to non-leaseable lands, e.g. oil & gas application; potential public safe areas; community boundaries. Output will be used to display & identify conflict and/or open areas of leaseable lands

DATA ELEMENTS: (MARK D.E. USED IN CREATING OUTPUT BUT NOT ON OUTPUT WITH *)

NUMBER	TITLE	NUMBER	TITLE	NUMBER	TITLE
3138	Acres	2536	No. Designation	2560	Status Indicator
2929	Agency Adm. Area	2537	No. Type	3443	Coordinate Type
2907	Doc. I.D. No.	3111	Quadrangle Name	3444	Coordinate Series
2910	Action code	3118	Survey No.	5465	Activity, Benefit Resc
2909	Action date	2904	Aliquot Part	New	Boundary Type
2921	Action remarks	2487	Subdivision	New	Stipulations
2576	Code agency	2522	Width of ROW	2532	Mineral ownership
2303	Commodity mineral	2507	US Right Title	2570	Land Resource Mgmt
2520	Segreg Ext Surface	2912	Case type	2572	Land Adjudication
2571	Segreg Ext Subsur	3131	Type of Survey	2574	Case Disposition
2554	Serial number	3139	Acreage Code	2811	Land Use Type
2902	Resource code	New	Point ident.	2913	Name, proprietor
1703	Meridian	New	Polygon ident.	1237	Longitude
1695	Township	0002	Geo-State	2508	Commodity, Leased
1699	Range	2911	Serial No. Prefix	2525	Elec. P.P. Size R-O-W
2506	Section	2906	Name Geographic	2914	Percent of Interest
New	Date	2531	Ownership Type	0004	Cong/Dist/County
1020	SSN or Appl. No.	1236	Latitude	0099	Geo-Admin State
1424	Pending Actions	2524	Dia. Pipe in R-O-W	1425	Bond Type
5872	Unit of Measure	2920	Survey Note	2575	Cata. Proprietor
8701	Multip. Admin/Geo	0485	Land Grant Names	2901	Remarks
2523	Length of R-O-W	0003	BLM Admin Area	3136	Interest Relationship
2577	Doc. I.D. No. Cata	0066	Abbrv.		
0100	Admin. State	2540	Stip. For Auth.		
2535	Period Kind	2542	Subsurf. Zone	~~2534~~	~~PERIOD OF DURATION~~
				2534	PERIOD OF DURATION

Graphic Products.

PROGRAM-SUBJECT AREA: Land Survey PLSS, ALMRS

PAGE 1 of 3

L&M State Rep. Team 5

APPLICATION PACKAGE(S): Case Management Utilization Management, Land Records

PREP BY: PLSS Tech. committee

TITLE OF OUTPUT: Alphanumeric & Graphic Display of Lands Available/Not Available

DATE:

ITEM NO.

(1) CONTENT, PURPOSE, USE: Legal land survey areas and status data identified by user criteria for isolated lands open/closed to specific alternatives (land title transfers; land/mineral use opportunities, etc.). Outputs will be used to identify Bureau motions and private actions in land management

DATA ELEMENTS: (MARK D.E. USED IN CREATING OUTPUT BUT NOT ON OUTPUT WITH *)

NUMBER	TITLE	NUMBER	TITLE	NUMBER	TITLE
3138	Acres	3131	Type of Survey	3443	Coordinate Type
2907	Doc. I.D. No.	3118	Survey No.	3444	Coordinate Series
2914	Percent Interest	2904	Aliquot Part	2532	Mineral Ownership
2910	Action code	2487	Subdivision	2570	Land Resource Mgmt
2909	Action date	2522	Width of ROW	2572	Land Adjudication
2921	Action Remarks	2507	US Right Title	2574	Case Disposition
2576	Code Agency	2912	Case Type	2811	Land Use Type
2303	Commodity Mineral	New	Boundary Type	2913	Name Proprietor
2520	Segreg Ext surface	New	Stipulations	1237	Longitude
2571	Segreg Ext. subsur	New	Point Ident.		
2554	Serial number	New	Polygon Ident.		
2902	Resource code	0002	Geo-state		
1703	Meridian	2911	Serial No. Prefix		
1695	Township	2906	Name Geographic		
1699	Range	1236	Latitude		
2506	Section	2531	Ownership Type		
New	Date	3136	Interest/Relation.		
1020	SSN or Appl. No.	3139	Acreage Code		
1424	Pending Actions	2524	Dia. Pipe in R-O-W	2525	Elec. P.P. Size R-O-W
2523	Length of R-O-W	2920	Survey Note	0485	Land Grant Name
2577	Doc. I.D. No. Cata	2508	Commodity, Leased	0003	BLM Admin Area
0004	Congr Dist/County	0066	Abbrv.	0099	Geo-Admin State
0100	Admin-Geo State	1425	Bound Type	2535	Period Kind
2536	No. Designation	2537	No. Type	2540	Stip. for Auth
2542	Subsurf Zone	2560	Status Indicator	2575	Cata, Proprietor
2901	Remarks	2929	Agency Admin Area	5872	Units of Measure
8701	Multip. Admin/Geo	3111	Quadrangle Name		

Graphic Products

PROGRAM-SUBJECT AREA:
Land Survey PLSS, ALMRS
APPLICATION PACKAGE(S):
Case Management Utilization Management, Land Records
TITLE OF OUTPUT:
Graphic Master Title Plat (ad-hoc)

PAGE 1 of 3
L&M State Rep. Team 5
PREP BY: PLSS Tech. committee
DATE: [illegible] 83

ITEM NO.
(1) CONTENT, PURPOSE, USE: Legal land survey area(s) annotated with survey and status information, providing immediate access to current plats, through graphic displays on CRT screens and/or hard copies. Outputs will be used by Bureau personnel, Federal agencies and private industry for visual examination to analyze and make sound decisions.

2) DATA ELEMENTS: (MARK D.E. USED IN CREATING OUTPUT BUT NOT ON OUTPUT WITH *)

NUMBER	TITLE	NUMBER	TITLE	NUMBER	TITLE
3138	Acres	2904	Aliquot Part	2574	Case Disposition
1020	SSN or Appl. No.	2487	Subdivision	2902	Resource Code
0100	Admin. State	2522	Width of ROW	2907	Doc. I.D. No.
2910	Action codes	2507	US Rights Title	2913	Proprietor, Name
2909	Action dates	2912	Case Type	2914	Percent of Interest
2921	Action remarks	New	Point Ident.	3136	Interest/Relationship
2576	Code Agency	New	Polygon Ident.	3444	Coordinate Series
2303	Commodity Mineral	0002	Geo-state	New	Boundary Type
2520	Segreg Extent sur	2911	Serial No. Prefix		
2571	Segreg Ext subsur	2906	Name Geographic		
2554	Serial number	2531	Ownership type		
1703	Meridian	1236	Latitude		
1695	Township	1237	Longitude		
1699	Range	3443	Coordinate Type		
2506	Section	1424	Pending Action		
3131	Type of Survey	2523	Length of R-O-W		
3139	Acreage Code	2570	Land/Mgmt. Admin		
3118	Survey No.	2572	Land Jurisdiction		
2811	Land Use Type	0485	Land Grant Name	8701	Multiple Admin/Geo
New	Stipulations	0066	ABBRV	3111	Quadrangle Name
2920	Survey Note	2901	Remarks		
2577	Doc. I.D. No. Cata	2929	Agency Admin Area		

Graphic Products

PROGRAM-SUBJECT AREA: Land Survey PLSS, ALMRS

PAGE 1 of 2

APPLICATION PACKAGE(S): Case Management Utilization Management, Land Records

PREP BY: L&M State Rep. Team 5 PLSS Tech. committee

TITLE OF OUTPUT: [illegible] : Land Net

DATE: [illegible]. 1

ITEM NO.

(1) CONTENT, PURPOSE, USE: This output contains geo-referenced landnet and corners, to the section level, for the purpose of cartographic display. The product will be used for Bureau cartographic products which complete the National Mapping Program and support resources, cadastral, planning and ALMRS programs as well as other Federal and State agencies.

NUMBER	TITLE	NUMBER	TITLE	NUMBER	TITLE
1695	Township	2576	Agency Code		
1699	Range	2920	Survey Note		
2506	Section	3118	Survey No.		
1703	Meridian	New	Date		
New	Horizontal Reliab.	3111	Quadrangle Name		
3131	Type of Survey	2901	Remarks		
7540	Monument Type	2921	Action Remarks		
New	Polygon I.D.	3443	Coordinate Type		
New	Datum	3444	Coordinate Series		
New	Zone				
New	Point I.D.				
New	Map Projection				
1236	Latitude				
1237	Longitude				
New	Elevation				
New	Boundary Type				

Graphic Products

PROGRAM-SUBJECT AREA: Land Survey PLSS, ALMRS

PAGE 1 of 2

L&M State Rep. Team 5

APPLICATION PACKAGE(S): Case Management Utilization Management, Land Records

PREP BY: PLSS Tech. committee

TITLE OF OUTPUT: Surface and Mineral Status

DATE:

ITEM NO.

(1) CONTENT, PURPOSE, USE: This output contains geo-referenced landnet and corners to the parcel level, for the purpose of cartographic display. The product will be used for the Bureau cartographic products which complete the National Mapping Program and support Resources Planning and ALMRS programs, as well as other Federal and State Agencies.

3) DATA ELEMENTS: (MARK D.E. USED IN CREATING OUTPUT BUT NOT ON OUTPUT WITH *) Cont.

NUMBER	TITLE	NUMBER	TITLE	NUMBER	TITLE
1695	Township	New	Elevation	3139	Acreages Code
1699	Range	2904	Aliquot Part	3443	Coordinate Type
2506	Section	2303	Commodity, mineral	3444	Coordinate Series
1703	Meridian	2487	Subdivision	New	Boundary Type
New	Horizontal Reliab.	2507	US Right-Title	New	Map Projection
3131	Type of Survey	2508	Commodity, leased	New	Date
7540	Monument Type	2520	Segregation,Subsur	2901	Remarks
New	Datum	2570	Land/Mgmt. Admin.	2921	Action Remarks
New	Point ID	2571	Segregation, Sur	3443	Coordinate Type
New	Polygon ID	2574	Case Disposition	3444	Coordinate Series
New	Zone	2576	Agency Code	3111	Quadrangle Name
2531	Ownership Type	2904	Aliquot Part		
2572	Land Jurisdiction	2906	Geographic Name		
2532	Mineral Ownership	2920	Survey Note		
1236	Latitude	3118	Survey No.		
1237	Longitude	3138	Acres		

DEFINITIONS - Encl. 3

GLOSSARY OF TERMS

A

ABSTRACT--(noun) A summary or abridgment. A shortened form of a work or record retaining the general sense and unity of the original. (verb) To summarize. To shorten or condense by the omission of words without sacrifice of sense or continuity.

ABSTRACT OF TITLE--A condensed history of the title to land, consisting of a synopsis or summary of the material or operative position of all the conveyances, which in any manner affects said land or any estate or interest therein, together with a statement of all liens, charges, or liabilities to which the same may be subject.

ACCOUNTING ADVICE--The form for the control and disposition of money, also for input into the ADP system. An accounting advice is completed when a case is closed or a lease is issued.

ACQUIRED LANDS--Federal lands obtained by purchase, condemnation, exchange, or gift under laws other than public land laws. Legally defined as: "...land obtained by the United States through purchase or transfer from a State or private indivdual and normally dedicated to a specific use."

ACRE-- A unit of measurement. An acre equals 10 square chains, or 43,560 square feet. 640 acres equal one square mile.

ACTION CODE--Code assigned to show steps taken to effect change and notations to the serial register page, such as allowance, issuance, termination, transfer, expiration, etc.

ACTION DATE--Date on which an action occurs. Referring to month, day, and year.

ACTION REMARKS--Presents information concerning filing of mining claims.

ACTION TAKEN--Descriptive narrative of the action code.

ACTIVE FILES--Files which must be retained for the conduct of current work.

ADJUDICATION--The pronouncing of a judgment or decreee in a cause; also the judgment given. The legal processing of applications, entries, claims, etc., to assure full compliance with the public-land laws and regulations; also the interpretation of statutes and regulations and their application to a particular set of facts.

ADMINISTRATIVE SITE--A reservation of public lands for use as a site for public buildings, ranger stateions, or other administrative facilities.

ADP--Automated Data Processing

ADP SYSTEM--An interacting assembly of procedures, processes, methods, software, ADP equipment and personnel which are capable of accepting information, processing it according to plan, and producing a desired result.

encl. 3.

AFFIDAVIT--A written or printed declaration or statement of facts made voluntarily, and confirmed by oath, without notice to the adverse party and without opportunity to cross-examine. Affidavits are usually attached to field notes in support of corner restorations.

ALIQUOT--Contained an exact number of times in another; a part of a measurement that divides the measurement without a reminder.

ALIQUOT PARTS--Legal subdivisions, except fractional lots, or further subdivision of any smaller legal subdivision, except fractional lots, by division into halves or fourths ad infinitum.

ALLOWED APPLICATION--An application to acquire title to public lands, which has been accepted and approved.

ALPHANUMERIC--A term for alphabet letters, numbers, decimal digits, and punctuation marks, as in a typewriter keyboard.

ANSI--American Nation Standards Institute--a cooperative group of organizations substantially concerned with the standardization of elements in the field of ADP.

APPEAL--A process of civil law origin that entirely removes a controversy to an appellate court for the purpose of obtaining review and possible retrial. In general terms, an appeal takes a case to a higher court.

APPLICANT--An individual, corporation, State or local government, etc., applying for rights in, or title to, public lands or resources.

APPLICANT SURVEY--An individual, corporation, State or local government, etc., requesting the execution of a cadastral survey.

APPLICATION--A formal request for rights in, or eventual title to, public lands or resources.

APPLICATION PACKAGE--A series of interrelated routines and subroutines designed to perform a specific task.

APPROPRIATION OR APPROPRIATED--Public lands covered by an entry, settlement, claim, location, withdrawal, or reservation that sets the land apart for some particular use or disposal.

APPROPRIATED PUBLIC LANDS--Original public domain lands which are covered by an entry, patent, certification, or other evidence of land disposal; for certain purposes, public lands which are within a reservation, which contain improvements constructed with the aid of Federal funds, or which are covered by certain classes of leases are also considered appropriated.

APPROVED MINERAL SURVEY--The approval of a mineral survey at the State level is final. No Washington Office acceptance is required as in the case of public land subdivisional surveys.

APPROVED SURVEY--The terms "approved survey" and "official survey" are often incorrectly used as being synonymous with "accepted survey". Strictly speaking, an "approved survey" is a survey which has the field notes approved and the plat accepted by the BLM official who has been delegated the authority for such action. The proper term is now ACCEPTED SURVEY.... The field notes and plat become OFFICIAL records of the BLM when filed in the appropriate lands office. The field notes and the plats of Mineral Surveys are both APPROVED at the State Office level.

ASSIGNEE--A recipient or grantee. One to whom an interest is given or transferred, usually in writing.

ASSIGNMENT--A transfer or a making over to another of a whole or a part of property, either real or personal, or the giving to another of a right.

ASSIGNOR--A person who assigns a right.

ASYNCHRONOUS--A communication method in which data is sent as soon as it is ready, as opposed to methods where data is sent at fixed intervals.

B

BASE LINE--In cadastral survey, a line which runs in an east-west direction from an initial point.

BASIC--Beginners' All-purpose Symbolic Instruction Code. A programming language designed for personal computers and beginning computer users.

BATCH PROCESSING--A method of processing in which a number of similar items are accumulated and processed at the same time.

BAUD--A unit of signaling speed for information transfer. Speed expressed in bauds is equal to the number of signaling elements per second.

BID--A written or oral offer to purchase or lease

BINARY--A numbering system based on two digits, 0 and 1.

BIT--A contraction of "binary digit". The smallest unit of information in a binary system of notation, usually expressed as 0 and 1.

BOARD OF LAND APPEALS--Under the direction of a Board Chairman, the board exercises jurisdiction over cases involving appeals from decisions rendered by departmental officials relating to the use and disposition of public lands and their resources and the use and disposition of mineral resources in certain acquired lands and in the submerged lands of the Outer Continental Shelf. Persons adversely affected by a decision of a BLM officer or examiner have a right to appeal to the board. The Board is in the Office of Hearings and Appeals, the Office of the Secretary of the Department of the Interior....Decisions of the Board on such appeals shall be final for the Department.

BONA FIDE RIGHTS--Rights, such as in ownership of land, which are real, actual, genuine, and worthy of acceptance. Rights acquired in good faith under the law.

BOND--An agreement in writing in which one agrees to pay a specific amount of money to another in damages in the event of default in performance by the party who is bonded. These can be corporate surety bonds, bonds with individual sureties, or personal bonds with negotiable Federal securities.

BONUS--A lump sum paid to the United States by a successful bidder for a mineral lease, such payment being in addition to the rents and royalties specified in the lease.

BONUS PAYMENT--Usually a one-time payment made to a landowner or working interest owner in consideration for assigning, leasing or farming out an oil, gase, or mineral lease to the person paying the bonus.

BUFFER--A storage device used to compensate for a difference in rate of flow of data or time of events.

BYTE--A group of bits treated by the computer as a single unit of information.

C

CADASTRAL SURVEY--A survey which creates, marks, defines, retraces or reestablishes the boundaries and subdivisions of the public lands of the United States.

CANCELLATION (Lands)--An abrogation of a right in the public lands because of noncompliance with the public land laws or because of expiration of time limits.

CARDINAL DIRECTIONS--True north, south, east, or west.

CASE--A state of things requiring discussion, decision, or investigation. a statement of facts, reasons, etc., used to support an argument.

For BLM, a case may be defined in a variety of ways depending on what action is required and/or various State procedures. However, the two statements above do define that some action is required.

CASE FILE--A file, or folder, containing all legal documents and hard copies of data relating to a case.

CASE TYPE--Relates to identification of each specific mining claim, pertaining to lode and placer claims and mill or tunnel sites.

CATHODE RAY TUBE (CRT)--A television-like picture used in visual display terminals. Often used to refer to the terminal itself (CRT).

CENTRAL PROCESSING UNIT (CPU)--The component of a computer which controls the interpretation and execution of instructions.

CHARACTER--A single printable letter, numeral, or symbol used to represent data. Also includes non-visual control characte;s such as space, tab, carriage return, line feed, cursor position, etc.

CITY--Location for mailing use.

CLAIMANT--An individual or other entity asserting title to, or rights in, public lands.

CLASSIFICATION--Designation of public lands as being valuable or suitable for specific purposes, uses, or resources.

CLASSIFICATION OF LANDS--The process of determining whether the lands are more valuable or suitable for transfer or use under particular or various public land laws than for retention in Federal ownership for management purposes.

CLASSIFICATION WITHDRAWAL--A withdrawal of public lands which is made pending examination of the lands to determine their suitability for certain purposes and for classification for those purposes.

CLEAR LIST--A selected list of public lands which has been prepared for approval by the Secretary of the Interior or the Director of the Bureau of Land Management; also, an official statement from an interested Federal agency or official which indicates that no apparent objection exists to a proposed action with respect to public lands.

CLEAR LIST APPROVED--The approved title document with certification that conveys title to public land selected as indemnity for school lands lost by natural deficiency or prior appropriation.

COBAL--Common Business-Oriented Language. A programming language well suited to business applications involving complex data records and large amounts of printed output.

COLOR OF TITLE--If a claim to a piece of real property is based upon some written instrument, although a defective one, the person is said to have "color of title." A claim which has as its basis that which the law considers prima facie a good title, but which, by reason of some defect not appearing on its face, is not in fact a title. Federal withdrawn land is not subject to the Color-of-Title Act.

COMMODITY CODE--The code of a mineral resource occurring upon or within the crust of the earth and of value for trade or commerce.

COMPENSATORY ROYALTY--Money paid by an oil and gas lessee to compensate the Federal Government for the loss of royalty on oil or gas drained from the leased lands through wells on other lands from which the Government receives no royalty or receives royalty at a lower rate than would be paid for production from the leased lands which are being drained.

COMPETITIVE LEASE, OIL OR GAS--An oil or gas mineral lease, covering public lands within a known producing oil or gas field, which is issued to the successful bidder at public auction or through sealed bids.

COMPLETION--The process of finishing and equipping an oil or gas well for production after the well has been drilled to its total depth and tests have indicated that the well may produce commercial quantities of oil or gas.

COMPUTER--A device which can perform computations, including arithmetic and logic operations, without intervention of a human being.

COMPUTER SYSTEM--The actual computer hardware, which consists of the processor unit, operator terminal, input and output devices, and auxiliary storage devices.

COMPUTER NETWORK--Refers to the computer(s), programs, terminals, and communication lines necessary to facilitate geographical distribution of computer operations in addition to time-sharing operations.

COMPUTER OUTPUT MICROFILM (COM)--A technique used to record output from a computer as very small images on roll or sheet film.

CONDEMNATION--In real property law, the process by which property of a private owner is taken for public use, without his consent, but upon the award of payment of just compensation. It has the nature of a forced sale and the condemner has the position toward the owner of a buyer toward a seller.

CONFLICT--In connection with adjudication, any factor with respect to land status which serves as a bar to the approval of an application, often, an application which was filed or allowed prior to, or simultaneously with, the filing of another application for similar rights on the same lands.

CONTEST--Proceedings against a filing, claim, or entry alleging that same does not meet the requirements of the public land laws. It may be initiated by the Government or by an adverse claimant.

CONTIGUOUS LANDS AND CONTIGUOUS LEGAL SUBDIVISIONS--Lands or legal subdivisions having a common boundary.

CONTROL DOCUMENT INDEX (CDI)--A reference file consisting of microphotographic copies of legal documents mounted in aperture tabulating cards arranged by State, meridian, and township.

CORNER--A point determined by the surveying process that fixes the boundaries of various subdivisions represented on the official plats used as: section corner, quarter-section corner, meander corner.

CONVEYANCE--In real property law, a transfer of legal title to the land.

COUNTY--The largest territorial division within a state for political, administrative, and geographical purposes (includes borough or parish).

CURSOR--A displayed symbol marking the position on a CRT screen where the next character may be read or written.

D

DATA--A representation of facts, concepts, or instructions in a formalized manner suitable for communication, interpretation, or processing by humans or machines.

DATA, STORAGE AND RETRIEVAL--the process of recording and extracting data from auxiliary storage devices using a computer.

DATABASE--A collection of interrelated data stored together with a minimum of redundancy to serve multiple applications.

DATABASE MANAGEMENT SYSTEM--A series of programs used to establish a database, update the database, and query the database.

DATA ELEMENT DICTIONARY (DED)--The dictionary is a repository for all definitive information about the data elements including their use, meanings, sources, characteristics, relationships, authorities, etc. It contains data as well as the descriptions of data plus how the dictionary functions. Examples of contained data are state and county names and numbers (DE 0002), case types, and related authorities (DE 2961).

DEDICATED LINE--A leased telephone line reserved for the exclusive use of one customer, or for one terminal.

DECISION--A decision is the reduction to writing of the adjudicative process. A decision orders the disposition of a case in a certain way, and contains a statement of the facts, laws, and reasoning which require that disposition.

DEED--A document which transfers title to real property. In those instances where a complicated metes and bounds description is the only description available, a deed may be used to transfer fee-simple interest in public lands. A patent would be issued under normal conditions where a cadastral survey plat shows a description by legal subdivisions.

DIGITIZE--To convert an analog measurement of a physical variable into a numerical value, thereby expressing the quantity in a digital form.

DIGITIZER--A data entry device which can scan images and transmit those images as digital impulses to a computer.

DISK OPERATING SYSTEM (DOS)--The programs which control storage and reading of information into disks.

DISPOSITION--A transaction which leads to the transfer of public lands, and/or resources in these lands, from the Federal Government.

DISPOSAL, LAND--A transaction that leads to the transfer of title to public lands from the Federal government.

D

DISTRICT OFFICES (BLM)--The States and cities in which BLM district offices are currently located.

DISTRIBUTED DATABASE--The concept of distributing portions of a database at remote sites where the data is most frequently referenced.

DOCUMENT--1) An instrument on which is recorded by means of letters, figures, marks or symbols, information which may be relied upon as the basis, proof or support of something. A deed, agreement, title paper, letter or other written instrument used to prove a fact. 2) To furnish written evidence. To provide with factual or substantial support for statements made or a hypothesis proposed; especially, to equip with exact references to authoritative supporting information.

DRUM PRINTER--A type of high-speed printer that features a cylindrical drum that relates to position characters for printing.

DUMB TERMINAL--A terminal that is used to accept keyed data and transmit that data to a computer with no other processing capabilities.

E

EASEMENT--An interest or right in land owned by another that entitles its holder to a specific limited use; such as laying a sewer, crossing over property, or putting up power lines.

ELECTRONIC FUNDS TRANSFER--A method of receiving and paying for goods and services by which funds are transferred from one account to another electroncially under the control of one or more computer systems.

EMINENT DOMAIN--The right of governmental agencies to take private property for public use.

ENCROACHMENT--An unlawful and adverse intrusion within the boundary of a property, such as cultivation of the soil, enclosure by fence, the construction of an improvement, extension of a tunnel, underground operation or comparable act.

ENCUMBRANCE--Any right or interest in land which makes it subject to a charge or liability. Encumbrances include mortgages, judgment liens, attachments, leases, deed restrictions, unpaid taxes, inchoate rights of dower, etc.

ENTRY--An application to acquire title to public lands.

ENVIRONMENTAL ASSESSMENT (EA)--A concise public document used by Federal agencies to determine whether, as a result of a proposal, to prepare an environment impact statement (EIS) or a finding of no significant impact (FONSI). At the minimum, an EA briefly discusses the need for the proposal, alternatives, environmental impacts of the proposal and alternatives, and a listing of persons and agencies consulted.

E

EQUITY--A system of law originating in the English chancery and comprising a settled and formal body of legal and procedural rules and doctrines that supplement, aid, or override common and statute law. Rules of equity are designed to protect rights and enforce duties as created and defined by law. In another legal meaning, "equity" is the remaining interest belonging to one who has pledged or mortgaged his property, or the surplus of value which may remain after the property has been sold to satisfy liens. The amount of value of a property above the total liens or charges.

EXCHANGE--A transaction whereby the Federal Government receives land in exchange for other land and/or timber.

EXECUTIVE ORDERS--Proclamations made by Presidents of the United States insofar as they pertain to public lands; they affect the status either by classification, withdrawal, or restoration. Public Land Orders are now utilized to perform this same function.

EXPIRATIONS--Leases automatically expire by operation of laws; no notification to lessee is normally necessary. Expirations are identified by ADP printout.

EXTERNAL INPUT--Those items that are generated outside the case processing module and that are needed to perform functions within the module.

EXTERNAL INPUT/OUTPUT--Those materials generated outside the case processing system that are distributed to both the case file and the applicant simultaneously.

EXTERNAL OUTPUT--Those items that are required to notify the applicant and the public and/or are used in the appeals process.

F

FACSIMILE--Transmission of photos, maps, drawings, diagrams, and other graphic data by communication channels. The image is scanned at the transmission site, transmitted as a series of impulses, and reconstructed at the receiving site to be duplicated on paper.

FEDERAL LAND--All classes of land owned by the Federal Government.

FEDERAL LAND POLICY AND MANAGEMENT ACT (FLPMA)--P.L. 94-579, Act of October 21, 1976: BLM's organic act which established public land policy and established guidelines for administration.

FEE--The true meaning of the word "fee" is the same as that of "feud" or "fief," and in its original sense it is distinguished from "allodium," which is defined as a man's own land, posessed in his own right, without owning any rent or service to any superior. In modern English tenures, "fee" means an estate of inheritance clear of any condition, limitation, or restriction to particular heirs, but descendable to the heirs in general, male or female, lineal or collateral. In American law, the terms "fee," "fee simple" and "fee simple absolute" are equivalent.

F

FIELD EXAMINATION--An examination conducted by Bureau (or Bureau-directed) personnel, made on the ground.

FIELD NOTES--The official written record of a land survey, certified by the field surveyor, and approved by proper authority, providing courses and distances of lines surveyed and descriptions of corner monuments.

FILE--An organized collection of records directed toward some purpose and treated as a unit.

FILES--Any papers or records accumulated in filing equipment, boxes, or shelves occupying office or storage space.

FILING--An application or other proper document, which has been submitted to the proper official or office, or, an application pursuant to the Mineral Leasing Act.

FINAL CERTIFICATE--A document which evidences that an entryman is entitled to a patent provided that no irregularities are found in connection with his entry.

FIRMWARE--Hardware that contains built-in programs that cannot be changed by the user.

FLOPPY DISK--A storage medium where information is recorded on the surface of a flexible disk.

FLOWCHART--A graphic representation of sequence of operations in a computer program.

FORMAT--A predetermined arrangement of data to facilitate an orderly presentation. The appearance of an entire document in relation to type, page layout, and headings.

FORTRAN--Formula translation--a widely used programming language generally used in scientific applications, but now widely adapted for commercial problems.

FRACTIONAL TOWNSHIP OR SECTION--A situation called "natural deficiency" caused by surveys creating fractional measurements due to the presence of a large meanderable body, impassable objects, a State or reservation or grant bounday, or similar reserves.

FRONT-END PROCESSOR--A sophisticated, programmable communications control unit consisting of a computer designed to handle communications functions to relieve the main computer of these tasks.

FULL DUPLEX--Pertains to simultaneous two-way and independent transmission.

G

GENERAL LAND OFFICE--The agency which was formerly responsible for the execution of the public land laws relating to cadastral surveys and land disposals, and to various other activities with respect to the administration and management of the public lands. It was established as a unit of the Treasury Department in 1812, and so remained until 1849, when it became a part of the newly created Department of the Interior. It was abolished in 1946 when its functions were combined with those of the Grazing Service to become the Bureau of Land Management.

GENERAL PURPOSE COMPUTERS--Computers that can perform any task by changing the application program in the main computer storage.

GEOGRAPHIC STATE--The geographic state in which the claim is located.

GOVERNMENT CONTEST--A proceeding initiated by the Government to determine the validity of a claim.

GRAPHIC--Any display of alphanumeric data including maps, overlays, graphics, charts, etc., in either a two or three dimensional configuration.

GRAPHIC DISPLAY TERMINAL--CRT terminals capable of displaying not only letters of the alphabet and numbers but also graphs and drawings as well.

GRANT--Lands, title to whch has been confirmed or conferred to the United States for a particular reason or purpose.

GRANTEE--One to whom a grant is made. The recipient of the right-of-way, patent, deed, or other benefit.

GRANTOR--The person who makes the grant.

GUARANTEE OF TITLE--A certification which ensures that the title exists in fact as described. Often issued by title-guarantee companies or by the state, as in the case of a Land Court certificate.

H

HARD COPY--A machine-printed document in a readable form, also called a printout.

HARDWARE--The physical equipment that makes up a computer system.

HEARING, CONTEST--Formal proceedings for the taking of evidence from the parties to the contest and their witnesses.

HISTORICAL INDEX--A chronological summary of all actions which affect, have affected, or will affect the title to, disposition of, or use status of lands and resources within a township.

HISTORICAL RECORDS--Contain information about the Bureau's origin, functions, organization, and accomplishments on policies, decisions, and procedures and reasons on which they are based; and on relevant social and economic conditions and legislation. They are required for current use and generally have permanent retention value.

H

HOST--A computer providing the controlling intelligence in a system with two or more computers operating together. The host computer may also provide intelligence for one or more "dumb" terminals.

I

INACTIVE FILES--Files which are seldom referred to in the conduct of current work.

INDEPENDENT RESURVEY--An establishment of new section lines for the public land which are independent and without reference to the corners of the original survey, while, at the same time, preserving the boundaries of the alienated lands.

INPUT--The data to be processed.

INQUIRY--A request from a terminal operator to a computer system for information.

INSTRUMENT, LEGAL--A written document. A formal or legal document in writing, such as a contract, deed, lease, will, bond or other writing of a formal or solemn character, such as a document given as a means of affording evidence.

INTELLIGENT TERMINAL--A programmable terminal capable of interacting with the central site computer and performing limited processing functions at the remote site.

INTERACTIVE--A computer mode of operation where the operator has the option of making decisions during the execution of a program which affects the operation of a program. Contrasts with batch processing, which does not allow for correcting errors or intervening in the process.

INTERACTIVE COMPUTING--Using a computer so that the user is in control and may enter data or make other demands on the system, which responds by the immediate processing of user requests and returning appropriate replies to those requests.

INTERFACE--The shared connection of boundary between two devices or systems; the point at which two devices or systems are linked.

INTEREST--As applied to lands, "interest" means any direct or indirect ownership in whole or in part of the lands and resources of the lands. It includes any participation in the earnings therefrom, or the right to occupy or use the property or to take any benefits therefrom based upon lease or rental agreements, or upon any formal or informal contract with a person who has such an interest. It includes membership in a firm, or ownership of stock or other securities in a corporation which has such an interest.

INTEREST RELATIONSHIP--Code to indicate interest in or relationship of named party to a case.

I

INTERNAL--Data generated by BLM or Federal agencies that generate case related materials that are filed within the case.

ISOLATED OR DISCONNECTED TRACT--A tract of one of more contiguous legal subdivisions completely surrounded by lands held in non-Federal ownership or so effectively separated from other federally owned lands by some permanent withdrawal or reservations as to make its use with such lands impracticable. A tract is considered isolated if the contiguous lands are all patented, even though there are other public lands cornering upon the tract. For sale purposes under R.S. 2455, an isolated tract was a parcel of vacant public lands (not exceeding 1,520 acres) which was surrounded by appropriated public lands and/or private lands. (repealed by FLPMA)

J

JOB--A collection of one or more tasks grouped by the user as being related pieces of work.

JUDGMENT--In law an official formal decision given by a court, in another meaning, an obligation (as a debt) created by the decree of the court.

K

KCLA (Land Status Records)--Known Coal Leasing Area.

KGRA (Land Status Records)--Known Geothermal Resource Area.

KGS (Land Status Records)--Known Geologic Structure.

KNOWN GEOTHERMAL RESOURCE AREAS (KGRA)--An area in which the geology, nearby discoveries, competitive interests, or other indicators would, in the opinion of the Secretary, engender a belief in men who are experienced in the subject matter that the prospects for extraction of geothermal steam or associated geothermal resources are good enough to warrant expenditures of money for that purpose.

KNOWN GEOLOGIC STRUCTURE (KGS)--A geological trap in which an accumulation of a valuable mineral product has been discovered by drilling and determined to be productive, the limits of which include all acreage that is presumptively productive.

L

LANDS OPEN TO MINERAL LOCATION--Lands held by the United States for disposal under the land laws are open to mineral location. Land specifically withdrawn, such as national parks, national monuments, military reservations, and Indian lands are not subject to location. Minerals found within a national forest are subject to location provided the discovery is such that it would justify an ordinary prudent person his expenditure of time and effort in developing a paying mine. Without the existence of

commercial value, mineral claims within a national forest are not valid locations. Lands such as the beds of navigable bodies of water and land between high and low-water mark are not subject to location under the Federal mining laws.

LAND STATUS RECORDS--Those records maintained by the Bureau of Land Management, showing ownership of the public lands and the availability of the lands for use under the public land laws. The land status records include the Master Title Plat, Supplemental Master Title Plat, Use Plat, Historical Index, Control Document Index, Miscellaneous Document Index, Serial Register, Mineral Location and Contest Index, Tract Books, Plat Books, Patents, Deeds Name Index Card File, and the Working and Reference Records.

LEASABLE MINERALS--Oil and gas; oil shale; coal; potash; phosphate; sodium; sulphur in Louisiana and New Mexico; gold, silver, and quicksilver in certain private land claims; and silica deposits in certain parts of Nevada.

LEASE--1) A contract granting possession or control of real property for a determined period. 2) The act of granting the lease. 3) The act of the lessee in taking the lease.

LEASED LINE--A communication link reserved for the exclusive use of one customer, or one terminal. (See also "dedicated line.")

LEGAL DESCRIPTION--A written statement recognized by law as to the definite location of a tract of land by reference to a survey, recorded map, or adjoining property.

LEGAL RECORDS--Include those which establish rights or obligations of the Bureau, its employees, and persons or organizations with which it conducts business. They are retained until the rights or obligations are satisfied. When they establish precedents, they may have permanent retention value.

LEGAL TITLE--Title enforceable in a court of law, which is apparently complete and perfect and is generally associated with record ownership.

LOCATION--In mining, the perfecting of a right to possession of a mining claim for mining purposes. This includes the staking of the claim, sinking a discovery shaft, discovery of a valuable mineral, posting a notice of location, and recording the claim. In a broad sense there are four types of location: lode or vein, place, tunnel, and mill site. In a secondary meaning, a location is the mining claim covered by an act of appropriation or location.

LOCATION NOTICE--In mining, a public notice of location of a mining claim. The object of the notice is to inform the public. It must be filed and posted on the ground according to the laws of the state where located. Usually it sets forth the name of the locator, the date, the name of the claim, and a tie to a corner of the public land surveys. The essential requirement of a location notice, however, is that it must so describe and identify the location that it can be found by anyone interested in doing so, and that the boundaries may be readily traced on the ground.

L

LODE CLAIM--A mining claim embracing public lands which contain minerals occurring in a vein or lode.

LOT--A subdivision of a section which is not described as an aliquot part of the section, but which is designated by number, e.g., LOT 2. A lot may be regular or irregular in shape, and its acreage varies from that of regular subdivisions.

The term "Government Lot" is commonly used by persons outside the Bureau of Land Management in referring to such a subdivision or section. "Lot" is also the name given individual parcels of recorded subdivisions of private tracts.

M

MAILING ADDRESS--Street or box number identification for mailing use.

MAINFRAME--Large macrocomputers that are capable of processing large amounts of data at very fast speeds with access to billions of characters of data.

MAP--A representation on a plane surface, at an established scale, of the physical features (natural, artificial, or both) of a part or the whole of the earth's surface, by means of signs and symbols, and with the means of orientation indicated.

MASTER TITLE PLAT--A composite of the survey plats of a township on which is shown the ownership and land status.

MEMORY--The main, high-speed storage area in a computer where instructions for a program being run are temporarily kept; also, a device in which data can be stored and retrieved.

MENU--A list of possible activities a program can perform.

MENU DRIVEN--A computer program that primarily uses menus for its user interface rather than a command language.

MERIDIAN--1) A north-south line from which longitudes (or departures) and azimuths are reckoned; or a plane, normal to the geoid or spheroid defining such a line. 2) A flag or sight near a survey camp used to test solar transits for adjustment.

METES AND BOUNDS--A method of describing a parcel of land by citing the owners of abutting lands and describing the length of each course of a boundary as "along" some apparent line, such as, "along a stream" or "along the road."

MIRCOCOMPUTER--A computer system commonly consisting of a CRT, keyboard, and limited storage capacity, usually the least expensive of the computers.

MICROFICHE--A sheet of film on which information is recorded in miniature.

MICROPROCESSOR--The electronic components of an entire central processor unit created on a very small silicon chip.

minicomputer: a computer system that has a smaller computer storage, slower processing speeds, and lower cost than large computer systems.

M

MINERAL--A substance that is recognized as mineral, according to its chemical composition, by the standard authorities on the subject or is classified as a mineral product in trade or commerce, or possesses economic value for use in trade.

MINERAL APPLICATION--An application to purchase public lands which are held as a mining claim or which are desired as a mill site.

MINERAL EXAMINER--An employee of the Bureau of Land Management who, prior to patent, conducts a field examination to determine the validity, under the law, of a mining claim. To be a bona fide claim, for example, the discovered mineral deposit must be valuable.

MINERAL CLAIM--A parcel of land probably containing valuable mineral in its soil or rock, and appropriated by an individual, according to established rules, by the process of "location."

MINERAL CLASSIFICATION--Classification of public lands as being valuable for a specified mineral (or minerals); also, the public lands so classified.

MINERAL IN CHARACTER--Lands where the mineral is ordinarily in sufficient quantity to add to their richness and to justify expenditures for its extraction.

MINERAL LANDS--Public lands which have been classified as containing, or are known to contain, valuable minerals.

MINERAL LEASE--A lease under the Act of February 25, 1920 (The Mineral Leasing Act), as amended and supplemented. It authorizes the development and production of certain leasable minerals from public lands.

MINERAL LEASING ACT--Act of February 25, 1920 (41 Stat. 437: 30 U.S.C. 181 et seq.), authorizeing leasing of public lands for extraction of oil, gas, coal, phosphate, sodium, and other minerals.

MINERAL MONUMENT--A monument which is established in connection with a mineral survey.

MINERAL PERMIT--A permit which authorizes prospecting for certain leasable minerals on public lands.

MINERAL RESERVATION--A clause in a patent which retains minerals in Federal ownership.

MINERAL RIGHTS--Rights which attach only to mineral deposits; the rights of one who owns the mineral estate (subsurface).

MINERAL SURVEY-- A survey of a mining claim, performed either by cadastral survey or by an approved surveyor.

M

MINERAL VALUABLE--A deposit of a mineral ore or substance which is useful in commerce or the arts, occurring in quantity and quality sufficient to justify its mining and removal for sale; also, any quantity of such ore or substance in a vein or lode, the size and continuity of which are such as to justify an ordinarily prudent man in the expenditure of his labor and means in an effort to develop a paying mine.

MINERAL WITHDRAWAL FOR CLASSIFICATION--A withdrawal of public lands which are potentially valuable for leasable minerals. The withdrawal precludes the disposal of the lands except with a mineral reservation clause unless the lands are found, upon examination or by other competent evidence, not to contain a valuable deposit of minerals.

MINICOMPUTER--A computer system that has a smaller computer storage, slower processing speeds, and lower cost than large computer systems.

MODEM--Modulator/demodulator--a device that converts computer signals (data) into high frequency communications signals and vice-versa. These signals can then be sent over telephone lines.

MULTIPLE USE--The management of the public lands and their various resource values so that they are utilized in the combination that will best meet the present and future needs of the American people; making the most judicious use of the land for some or all of the resources or related services over areas large enough to provide sufficient latitude for periodic adjustments in use to conform to changing needs and conditions; the use of some land for less than all the resources; a combination of balanced and diverse resource uses that takes into account the long-term needs of future generations for renewable and non-renewable resources, including, but not limited to, recreation, range, timber, minerals, watershed, wildlife and fish and natural scenic, scientific and historical values; and harmonious and coordinated management of the various resources without permanent impairment of the productivity of the land and the quality of the environment with consideration being given to the relative values of the resources and not necessarily to the combination of uses that will give the greatest economic return or the greatest unit output.

MULTIPLE USE ACT--Refers to Public Law 167, whose principal is the maximum utilization and development of the public lands, not only through the separtion of the surface rights from the subsurface rights, but also from the granting of two or more compatible surface uses and two or more compatible sub-surface uses or combination thereof to the two or more parties.

MULTIPLEX--The division of a transmission facility into two or more channels; permits simultaneous transmission of two or more messages on a single channel.

MULTIPROGRAMMING--The concurrent execution of two or more computer programs on one computer system.

N

NATIONAL ENVIRONMENTAL POLICY ACT OF 1969 (NEPA)--(Public Law 91-190, 83 Stat. 852.) An act signed into law January 1, 1970 that established a policy for protecting environmental resources, required Federal agencies to assess the impacts of their proposed actions, and established the Council on Environmental Quality.

NATIONAL FOREST--A reservation of a forest or watershed which is administered by the Forest Service, United States Department of Agriculture.

NATIONAL MEMORIAL--A reservation embracing memorials of national interest which is administered by the National Park Service, United States Department of the Interior.

NATIONAL REGISTER OF HISTORIC PLACES (NATIONAL REGISTERO--A Federal Government listing of "...districts, sites, buildings, structures, and other objects significant in American history, architecture, archeology, and culture." The National Register is maintained by the National Park Service, U. S. Department of the Interior, and is published in its entirety in the Federal Register each year in February. Addenda are published on the first Tuesday of each month. Federal agencies are required to consult the National Register to identify any NR properties that may be impacted by a proposed action or undertaking.

NATIONAL MONUMENT--A reservation embracing objects of historic and scientific interests which is administered by the National Park Service, United States Department of the Interior.

NATIONAL PARK--A reservation embracing recreational areas which is administered by the National Park Service, United States Department of the Interior.

NATIONAL RESOURCE LANDS--All of the lands administered by the Bureau of Land Management.

NETWORK--A group of computers connected to each other by communications lines to share information and resources.

NOISE--Any disturbance that interferes with the normal operation of a device or system--can be random electrical signals introduced by circuit components, or natural disturbances that downgrade the performance of a communication channel.

NON-BUREAU ENERGY INITIATIVE (NBEI)--A lands and realty action resulting from an application to acquire or use BLM-managed lands for purposes related to the development or the distribution of energy resources.

NONCOMPLIANCE--Whenever the lessee fails to comply with any of the provisions of the act or the regulations issued thereunder, the lease may be canceled if not known to contain valuable deposits of oil and gas after notice to lessee in accordance with Section 31 of the act.

N

NOTICE--The communication of a pending action; the notification of parties of action about to be taken. This is a part of due process.

NOTICE OF REALTY ACTION (NORA)--A published notice to the general public of a realty-related action proposed by the BLM.

O

OFF-LINE--Equipment or devices not under direct control of the CPU, or terminal equipment that is not connected to a transmission line.

ON-LINE SYSTEM--A system in which terminals have direct and continuous access to a host computer.

OPERATOR--A person, partnership, corporation, or other entity that has the right, obtained contractually from co-owners, to exercise the direct supervision over the drilling of, or production from, a gas or oil well.

ORIGINAL PUBLIC DOMAIN--All the lands obtained by the Government by: cession from the Thirteen Original States (1789-1802); by the Louisiana Purchase (1803); by the cession from Spain (1819); but the occupation of the Oregon Territory (1846); by the Mexican Cession (1848); by the purchase from Texas (1850); by the Gadsden Purchase (1835); and by the purchase of Alaska (1867). The State of Tennessee, although within the area covered by the Thirteen Original States, is not properly considered a part of the original public domain.

OUTPUT--Data that has been processed.

OVERRIDING ROYALTY INTEREST--An interest in the oil and gas production attributable to a specific oil and gas lease or leases, or an interest in the proceeds from the sale of oil and gas production therefrom, which interest is carved out of the working interest and which interest is to be received without any obligation as to cost of drilling, development, operation or maintenance.

P

PARALLEL CONVERSION--Processing data in both the old system and the new system and comparing the results.

PASSWORD--A protected word or string of characters that identifies or authenticates a user, a specific resource, or an access type.

PATENT--A document by which the United States conveys, to those entitled thereto, legal title to some portion of the public lands.

PATENT RESERVATION--A clause in a patent or instrument of conveyance by which the grantor creates and reserves to himself some right or interest in the estate granted, which had no previous existence, but is called into being

by the patent. The reservation is always in favor of, and for the benefit of, the grantor; thus a right-of-way grant which exists at the time the patent is issued can never amount to a reservation unless the right-of-way is for the benefit of the United States. Otherwise, a valid existing right-of-way should be protected by issuing the patent "subject to" the right-of-way.

PD (Land Status Records)--Public Domain

PERIPHERAL EQUIPMENT--The auxillary machines, either on-line or off-line, that may be placed under the control of a central computer.

PERMIT--A short-term (generally under 3 years), revocable authorization to use public lands for specific purposes.

PLAN OF DEVELOPMENT--The general outline of how a definitely proposed or authorized project is to be implemented.

PLAT--As used technically by the BLM, the drawing which represents the particular area included in a survey, such as a township, private land claim or mineral claim, and the lines surveyed, established, retraced or resurveyed, showing the direction and length of each such line; the relation to the adjoining official surveys; the boundaries, descriptions, and area of each parcel of land subdivided; and, as nearly as may be practicable, a representation of the relief and improvements within the limits of the survey.

PLOTTER--Device capable of producing drawings as hard copy output from a computer.

PRINCIPAL OR MAJOR USES--A term used in FLPMA that includes, and is limited to domestic livestock grazing, fish and wildlife development and utilization, mineral exploration and production, right-of-way, outdoor recreation, and timber production.

PRODUCING LEASE (OIL AND GAS)--A lease to public lands which are within a known producing structure or upon which a discovery has been made.

PROGRAM--the complete sequence of instructions and routines needed to solve a problem or to execute directions in a computer.

PROSPECT--An undeveloped oil or gas property which may be covered by one or more oil and gas leases located in an area of geological interest.

PROSPECTING LEASE (OIL OR GASO--A lease authorizing the exploration, development, and production of oil or gas from public lands which are not known to contain such deposits.

PROTEST--A formal statement of objection, dissent, or disapproval in regard to some act about to be done or already performed, such as an objection to an application, entry, claim, etc.

P

PROTOCOL--The specific line control procedure by which a CPU and remote terminals are allowed to exchange information.

PRUDENT MAN TEST--Also called "prudent man rule." In determining whether or not a mineral deposit is "valuable" under the meaning of the law, discovered deposits must be of such a character that a person of ordinary prudence would be justified in the expenditure of his labor and means, with a reasonable prospect of success, in developing a paying mine.

PRINCIPALS MERIDIAN--The meridian extended from an initial point, upon which regular quarter quarter-section, section and township corners have been or are to be established.

PROPERTY--Used commonly to denote everything which is the subject of ownership. It extends to every species of valuable right and interest, and includes real and personal property.

PUBLIC DOMAIN--The term applied to any or all of those areas of land ceded to the Federal Government by the Original States and to such other lands as were later acquired by treaty, purchase or cession, and are disposed of only under the authority of Congress.

PUBLIC LANDS--(1) The term "public lands" means any land and interest in land owned by the United States within the several States and administered by the Secretary of the Interior through the Bureau of Land Management, without regard to how the United States acquired ownership, except--
(a) lands located on the Outer Continental Shelf; and
(b) lands held for the benefit of Indians, Aleuts, and Eskimos.
(2) Includes a) the remaining public domain of the United States, b) reservations, other than Indian reservations, created from the public domain, c) lands withdrawn, reserved or withheld from private appropriation and disposal under the public land laws, including the mining laws, d) outstanding interests of the United States in lands which have been patented or otherwise conveyed under the public land laws, e) National Forests, f) wildlife refuges and ranges, and g) the surface and subsurface resources of all such lands.

PUBLIC LAND LAWS--The body of laws which regulates the administration of the public lands and the resources thereon.

PUBLIC LAND ORDER--An order effecting, modifying, or canceling a withdrawal or reservation. Such an order is issued by the Secretary of the Interior pursuant to powers delegated to the Secretary by the Federal Land Policy and Management Act of 1976.

PUBLIC LAND STATES--Those states created out of the public domain of the United States. They are: Alabama, Alaska, Arizona, Arkansas, California, Colorado, Florida, Idaho, Illinois, Indiana, Iowa, Kansas, Louisiana, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Mexico, North Dakota, Ohio, Oklahoma, Oregon, South Dakota, Utah, Washington, Wisconsin and Wyoming.

Q

QUARTER SECTION--One-fourth of a section; 160 acres.

QUERY--Retrieval of data excluding retrievals for land and mineral case processing purposes.

QUERY FREQUENCY--Number of retrievals per case per year (active and inactive) (inactive = dormant or dead).

QUERY LANGUAGE--A language provided as a part of database management systems that provides for easy access to data in a database.

QUEUE--A group of messages, or data, waiting for processing or transmission.

QUIT-CLAIM DEED (BUREAU OF LAND MANAGEMENT)--The type of deed used to relinquish all claims of the United States in lands which were conveyed to the United States in connection with some transaction. A deed which does not allege ownership.

R

RANDOM ACCESS--The ability to retrieve records without reading any previous records.

RANDOM FILE UPDATING--The process of updating files in which each master record is individually retrieved without searching through each master record sequentially.

RANGE--A north-south tier of townships or sections. A range of townships is described by its relationship to the principle meridian.

RECLAMATION WITHDRAWAL--A withdrawal of public lands in connection with a reclamation project.

RECORD--1) The approved field notes and plat of a survey. 2) A value of area, bearing or distance from the approved field notes. 3) The act of recording a document, as in a county. 4) All of the documents pertaining to title and boundaries including status, group files, county surveyor information as well as field notes and plats, when used as "to search the record."

RECREATION AND PUBLIC PURPOSES ACT (R&PP)--The Act of June 14, 1926, as amended (43 U.S.C. 869, 869-4). Allows the disposal of public lands to any State, local, Federal, or political instrumentality or nonprofit organization for any recreation or public purpose, at the discretion of the authorized officer.

RECTANGULAR SYSTEM OF SURVEYS--The cadastral system of surveys that was and is used to subdivide the public lands into townships, sections, and sectional subdivisions.

R

REGULATION--An administrative statement, which after due notice, has the force and effect of law. Many acts passed by Congress are not sufficiently detailed to spell out totally the minute requirements of the law. Regulations which are promulgated pursuant to law are considered by the courts to have equal weight with the law they help to interpret and spell out.

REJECTION--A refusal to act favorably upon an application on the grounds that it was not properly filed, or that it conflicts with the public land laws or with public policy. Rejections are "decisions" with a 30-day appeal period sent by certified mail.

RELINQUISHMENT--The voluntary act of terminating a claim entry or other right in the public lands whereby every right, possessory or otherwise, is returned to the United States.

REMOTE JOB ENTRY (RJE)--Entering jobs in a batch processing system at a location remote from the central computer site.

RESERVATION--A withdrawal of a permanent nature, dedicated to a specific public purpose.

RESOURCE AREA (BLM)--The primary subdivision of a BLM District. It is composed of at least two (typically five to eight) planning units and intermingled and adjoining lands such as National Parks, National Forests, Indian Reservations, Military Reservations and private lands. It is under the administration of an Area Manager.

RESPONSE TIME--The time period between terminal inquiry and computer response.

RETIREMENT--Transfer of inactive, permanent valuable records to authorized repositories.

REVOCATION--The action which cancels a withdrawal. It need not necessarily "open" the lands to application/entry.

RIGHT OF WAY--The legal right to cross the lands of another. Also used to indicate the strip of land for a road, railroad, or power line. In BLM, a permit or an easement which authorizes the use of public lands for certain specified purposes, commonly for pipe lines, roads, telephone lines, or power lines. Also, the lands covered by such an easement or permit.

RING NETWORK--A network in which there is no central computer, but a series of computers that communicate with one another.

ROYALTY--An interest in a share of gross production from an oil or gas well or lease, which interest is unencumbered by any obligation as to cost of drilling, development, operation, or maintenance; the payment to the United States by a holder of a mineral lease of a share of his production of minerals from public lands; also, payment by certain lessees of public lands of a specified percentage of their case receipts from leased lands.

S

SCOPING--A process used by a federal agency to determine the range of issues and alternatives to be included in an environmental study.

SCREEN--Term used to depict the array of data portrayed on a CRT terminal. It may be data keyed in by an operator or transmitted from the computer.

SECTION--The unit of subdivision of a township with boundaries conforming to the rectangular system of surveys, nominally one mile square, containing 640 acres.

SEGREGATION--Any action such as a withdrawal or allowed application (exchange), which suspends the operation of the general public land laws. To separate or set apart; to remove lands from the operation of part or all the public land mineral laws.

SEQUENTIAL ACCESS--Data retrieved from a file, one record after another in a predetermined sequence.

SERIAL REGISTERS--Serial registers were instituted in 1908 as a digest of land case records. BLM maintains these individual chronological records of each public land transaction. Each transaction (case) appears as a page or pages in a serial register. Each one is identified by the serial number assigned to it. A running record of each case, its inception and any actions on it, is kept in book form in the land office of each public domain land state. Serial register pages are now microfilmed for ease in retrieval of information as well as to conserve space. As cases are closed, the files for them are sent to Federal records centers of the General Services Administration.

SOFTWARE--The computer instructions that direct the hardware to perform tasks; includes computer languages and functional operations of a system.

STAR NETWORK--A network that contains a central computer and one or more terminals connected to the computer system.

STATUS CONFLICT--Any matter with respect to the status of the land which would serve as a bar to approval of an application.

SPECIAL LAND USE PERMIT--A permit which authorizes the use of public lands for purposes not specifically authorized, or forbidden, by law.

STATUS OF PUBLIC LANDS--The information with respect to any particular parcel or tract of public land; its legal description; whether surveyed or unsurveyed; the non-federal rights or privileges, if any, which attach to it or its resources; whether classified as mineral lands; withdrawals or special laws, if any, which apply to it; and any other pertinent information which may influence the operation of the public land laws so far as its use or disposal is concerned.

SUPPLEMENTAL MASTER TITLE PLAT--An extension of the Master Title Plat, it depicts a congested section, or sections, within a township, drawn to a scale larger than the master title plat in order to adequately show land status in the area.

S

SUPPLEMENTAL PLAT--A plat prepared entirely from office records designed to show a revised subdivision of one or more sections without change in the section boundaries and without other modification of the record. Supplemental plats are required where the plat fails to provide units suitable for administration or disposal, or where a modification of its showing is necessary. They are also required to show the segregation of alienated lands from public lands, where the former are included in irregular surveys of patented mineral or other private claims made subsequent to the plat of the subsisting survey, or where the segregation of the claims was overlooked at the time of its approval, In the past, Supplemental Plats were called "diagrams" or "MAPS."

SUPREME COURT OF THE UNITED STATES--The highest court in the land. The court of last resort in the federal and state judiciaries. Its jurisdiction is essentially appellate, but it has irrevocable original jurisdiction in cases affecting ambassadors, public ministers and consuls or in cases in which a state is a party. The court is composed of a Chief Justice and eight Associate Justices.

SURFACE RIGHTS--All rights in the land excepting the oil, gas and mineral rights to underground deposits.

SURVEY--1) The plat and field-note record of the observations, measurements, and monuments descriptive of the work performed. Occasionally used as implying that the official plat is "The Survey." Commonly, any survey, but specifically, an original survey. 2) The process of recording observations, making measurements, and marking the boundaries of tracts of lands.

SURVEY PLAT--A plat representing the lines surveyed, established, retraced or resurveyed, showing the direction and length of each line; the relation to adjoining official surveys; the boundaries, descriptions, and area of each parcel of land; and the topography, culture, and improvements within the limits of the survey.

SUSPENDED APPLICATION OR ENTRY--An application or entry upon which adverse action has been deferred for good cause shown.

SWITCHED LINE--A line connected to switching equipment that automatically routes information between the calling and called parties or equipment after dialing is completed; a type of data communication line in which connection is established with a computer over a regular telephone network.

SYNCHRONOUS TRANSMISSION--The transmission of data based upon a timing mechanism in which data is transmitted at fixed intervals.

SYSTEM DESIGN--That phase of a system project in which a new system is created.

S

SYSTEM DEVELOPMENT--That phase of a system project concerned with scheduling, programming, and documenting a system.

SYSTEM DEVELOPMENT LIFE CYCLE--An inclusive term used for the analysis, design, programming, testing, and implementation of an ADP system.

T

TELECOMMUNICATIONS--Transmission of signals over long distances, such as by radio, telephone, or microwave.

TERMINAL--An input/output device used to enter data into a computer and record the output; any device capable of sending and/or receiving information over a communication channel.

TERMINATIONS--The ending of a lease, license, or permit. Terminations are generally referred to as automatic by operation of law if the lessee fails to pay rental on or before the anniversary date of such lease.

TIMESHARING--A sharing of the processing time of a single computer facility among multiple simultaneous users. Users appear to be served simultaneously due to rapid electronic speeds, although service is actually in sequence.

TITLE--In real property law, title is a means whereby the owner of lands has the just possession of his property.

TOWNSHIP--The unit of survey of the public lands; normally a quadrangle of approximately six (6) miles on a side with boundaries conforming to meridians and parallels within established limits, containing thirty-six sections, some of which are designed to correct for the convergence of meridians or range lines.

TRACT--Generally, a metes and bounds survey of an area at large within a township. In modern public land surveys, the term is used specifically to mean a parcel of land that lies in more than one section or that cannot be identified completely as a part of a particular section. Tract numbers begin with the next higher number of the numerical designation within a township; for example: if there is an old Mineral Lot NO. 37, the tract would be Tract No. 38. If a tract falls across a township line, it is given a separate number in each township.

T

TRACT BOOK--Starting about 1800, tract books designed primarily for the maintenance of permanent records of all transactions involving public domain lands were created and maintained in local land offices. Tract books were the companion records to the land office "status plat." Prior to the beginning of the records improvement program in 1955, these records constituted the records required in accordance with 43 C.F.R. 1813.1-1. Over the years, many of the tract books became worn and mutilated making status difficult to determine. To protect these books from further damage and to preserve the information they contain, these records are now microfilmed. As this is done, the tract books are transferred to the appropriate Federal records center as part of the National Archives.

TRESPASS--An unlawful act causing injury to rights or property of another. As used in BLM, an unauthorized use of federal lands or resources.

U

UNAUTHORIZED USE--Any occupancy or use of the public lands or resources of the United States without authority.

UNITED STATES COURTS OF APPEALS--Sometimes U.S. Circuit Court of Appeals. The middle level of the federal judicial hierarchy. There is one such court in each of the 11 judicial circuits into which the United States is divided. As the name indicates, the jurisdiction is exclusively appellate; they have no original jurisdiction. In cases where a court of appeals has held a State statute invalid because of repugnancy to the Constitution or a law or treaty of the United States, an appeal may be taken to the Supreme Court. In all other cases its decisions are final except as they may be reviewed by the Supreme Court at the latter's discretion.

UNITED STATES DISTRICT COURTS--The lowest level of the federal judicial hierarchy, whose jurisdiction may include a whole state or only part of it. No "district" crosses state boundaries. These are the only Federal courts where juries are used. They have no appellate jurisdiction; District Courts have original jurisdiction of civil cases at common law, in equity, in admiralty, in the enforcement of Acts of Congress and of all prosecutions for crime recognized under the authority of the United States.

USE AUTHORIZATION--Approval of a proposed use for land or resources on the prescribed form or document designated for such use; a document showing permission to use land or the resources thereon; a formalized grant pursuant to a request to use land or resources.

USE PLAT--A copy of the master title plat and any supplemental master title plats of a township. Use plats show, in addition to the status shown on the master title plat, information concerning use of the lands, such as applications, leases, and permits.

USER--Any individual or organization that uses a given resource.

V

VACANT PUBLIC LANDS--Public lands which are unappropriated and unreserved and not within a withdrawal; lands that are not reserved except by the general orders of withdrawal.

VALID CLAIM--A mineral or ore body of sufficient size and quantity to justify an ordinarily prudent man in the expenditure of his labor and means in an effort to develop a paying mine.

VIDEO TERMINAL--A terminal that displays data on a CRT, also called a visual display terminal (VDT).

W

WITHDRAWAL--An action which restricts the disposition of public lands and which holds them for specific public purposes; also, public lands which have been dedicated to public purposes.

WITHDRAWAL, GENERAL ORDERS OF--Under Executive Order Numbers 6910 (Nov. 26, 1934), and 6964 (Feb. 5, 1935), known as the "General Orders of Withdrawal," all vacant lands in Alabama, Arizona, Arkansas, California, Colorado, Florida, Idaho, Kansas, Louisiana, Michigan, Minnesota, Mississippi, Montana, Nebraska, Nevada, New Mexico, North Dakota, Oklahoma, Oregon, South Dakota, Utah, Washington, Wisconsin, and Wyoming were withdrawn for classification.

WITHDRAWAL IN AID OF LEGISLATION--A withdrawal which is made pending enactment of legislation relative to the same lands.

WORKING INTEREST--An interest in an oil and gas lease, which interest is subject to some portion of the expense of drilling, development, operation or maintenance, and which also entitles its owner to receive a proportionate share of production from such oil or gas well lease after first deducting all royalty interest payments, overriding royalty interest payments, and gross production taxes.

WORD PROCESSING--A system that processes text, performing such functions as paragraphing, paging, right and left justification, rearrangement of lines, and printing.

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